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*Plant Inventory No. 161*

UNITED STATES DEPARTMENT OF AGRICULTURE

Washington, D. C., April 1958

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**PLANT MATERIAL INTRODUCED JANUARY 1 TO DECEMBER 31, 1953**  
**(NOS. 204341 TO 212042)**

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This inventory, No. 161, lists the plant material (Nos. 204341 to 212042) received by the Plant Introduction Section, New Crops Research Branch, Agricultural Research Service, during the period from January 1 to December 31, 1953. It is a historical record of plant material introduced for Department and other specialists, and is not to be considered as a list of plant material for distribution. This unit prior to 1954 was known as the Division of Plant Exploration and Introduction, Bureau of Plant Industry, Soils, and Agricultural Engineering, Agricultural Research Administration, United States Department of Agriculture.

PAUL G. RUSSELL,  
*Botanist.*

*Plant Industry Station,  
Beltsville, Md.*





# Plant Inventory No. 101

UNITED STATES DEPARTMENT OF AGRICULTURE

Washington, D. C. April 1925

PLANT MATERIAL INTRODUCED JANUARY 1 TO DECEMBER 31, 1925  
(NOS. 1000 TO 1100)

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This inventory, No. 101, lists the plant material (Nos. 1000 to 1100) received by the Plant Introduction Section, New Group, Research Branch, Agricultural Research Service, during the period from January 1 to December 31, 1925. It is a list of the plant material introduced for Department and other purposes, and is not to be considered as a list of plant material for distribution. This list gives in 1925 was known as the list of Plant Introduction and Introduction, Bureau of Plant Industry, Soil and Agricultural Experimentation, Agricultural Research Administration, United States Department of Agriculture.

PAUL C. HENNER,  
Director.

Plant Introduction Section,  
Baltimore, Md.





## INVENTORY

204341 and 204342. SOLANUM TUBEROSUM L. Solanaceae.

Potato.

From India. Tubers collected by G. V. Bowers and Goran Knutsson, Nepal.  
Received Jan. 7, 1953.

204341. *Mangunbhot*.204342. *Pisang*.

204343 and 204344.

From Indochina. Seeds presented by M. Poilane, Savannakhet, Laos.  
Received Dec. 31, 1952.

204343. CITRUS RETICULATA Blanco. Rutaceae. Mandarin orange.

A mandarin that becomes a vigorous tree about 20 feet high. Grows in  
a very rainy area.

204344. SESBANIA BISPINOSA (Jacq.) W. F. Wight. Fabaceae.

From a swampy area; may be useful as green manure for ricefields.

204345 to 204347.

From Taiwan. Seeds presented by Nelson H. Fritz, J. G. White Engineering  
Corporation, Taipei. Received Dec. 31, 1952.

204345. CASTANOPSIS KAWAKAMII Hayata. Fagaceae.

204346. CASTANOPSIS TAIWANIANA Hayata.

204347. LITHOCARPUS TERNATICUPULA Hayata. Fagaceae.

204348 to 204356.

From northern Nigeria. Seeds presented by the Department of Agriculture,  
Samaru, Zaria. Received Jan. 2, 1953.

204348 to 204353. ARACHIS HYPOGAEA L. Fabaceae.

Peanut.

204348. *Castle Cary*.204351. *Natal Common*.204349. *Kand 50*.204352. *Samaru 38*.204350. *Naiyardo*.204353. *Tudun Wada*.

204354 to 204356. SORGHUM VULGARE Pers. Poaceae.

204354. *Farafara*.204355. *Light Mori*.204356. *Shor Kaura*.

204357 to 204359.

From Kenya. Seeds presented by A. Bogdan, Agricultural Department,  
Nairobi. Received Jan. 5, 1953.

204357. ANDROPOGON SCHINZII Hack. Poaceae

204358. CYNODON PLECTOSTACHYUM (K. Schum.) Pilg. Poaceae.  
Giant star-grass.

204359. HYPARRHENIA LINTONII Stapf. Poaceae.

204360 to 204363. *ZEA MAYS* L. Poaceae.

Corn.

From Thailand. Seeds presented by H. W. Ream, United States Special Technical and Economic Mission, Bangkok. Received Dec. 8, 1952.

204360. Red popcorn.

204362. Flint type.

204361. Glutinous.

204363. No. C113. *Tap Kwang*.  
Yellow dent.

204364 to 204377.

From Thailand. Seeds presented by the United States Special Technical and Economic Mission, Bangkok. Received Jan. 6, 1953.

From the Institute for Agricultural Research, Bogor, Indonesia, unless otherwise noted.

204364. *CALOPOGONIUM MUCUNOIDES* Desv. Fabaceae.

204365. *CASSIA LESCHENAULTIANA* DC. Caesalpiniaceae.

204366. *CASSIA OCCIDENTALIS* L.

204367. *CASSIA PATELLARIA* DC.

204368. *CENTROSEMA PUBESCENS* Benth. Fabaceae.

From Had Yai, Songkhla, southern Thailand.

204369. *CROTALARIA JUNCEA* L. Fabaceae.

Sunn-hemp.

From the Phra Experiment Station, Khonkaen.

204370. *CROTALARIA SALTIANA* Andr.

From the Macjo Experiment Station, Chenqueai, northern Thailand.

204371. *CROTALARIA USARAMOENSIS* Baker f.

204372. *INDIGOFERA ARRECTA* Hochst. Fabaceae.

204373. *INDIGOFERA SUFFRUTICOSA* Mill.

204374. *INDIGOFERA SUMATRANA* Gaertn.

204375. *INDIGOFERA* sp.

204376. *SESBANIA* sp. Fabaceae.

204377. *ZEA MAYS* L. Poaceae.

Corn.

204378 to 204529.

From Turkey. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Jan. 6, 1953.

Seeds collected in 1952.

204378. *AEGILOPS LONGISSIMA* Schweinf. & Muschl. Poaceae.

No. 121. Border of wheatfield, near Kerkoy, Kirsehir. Aug. 29.

204379 to 204382. *AGROPYRON SUBULATUM* Soland. Poaceae.

204379. No. 243. Between Kayseri and Pinarbasi, Kayseri. Sept. 1.

204380. No. 306. Near Sivas. Sept. 3.

204381. No. 314. Korucayri, near Hafik, Sivas. Sept. 4.

204382. No. 489. Near Pulumur, Tunceli. Sept. 10.

204383. *AGROPYRON* sp.

No. 359. Ulas, Sivas. Sept. 5.



## 204378 to 204529—Continued

204384 to 204386. AGROPYRON INTERMEDIUM (Host.) Beauv.

204384. No. 474. Sakultutan Mountain, north of Elazig, Tunceli. Sept. 10.

204385. No. 516. Erzurum. Sept. 12.

204386. No. 575. Base of Tosik Mountain, Erzurum. Sept. 13.

204387. AGROPYRON REPENS (L.) Beauv. Quackgrass.

No. 583. Near Zagki, Erzurum. Sept. 14.

204388. AGROSTIS sp. Poaceae.

No. 67. Forty km. southeast of Ankara, along Route 60, near Beyran Forest, Ankara. Aug. 28.

204389. APERA INTERRUPTA (L.) Beauv. Poaceae.

No. 84. One hundred and ten km. southeast of Ankara, along Route 60, Ankara. Aug. 28.

204390. AGROSTIS PALUSTRIS Huds. Poaceae.

No. 224. Near Kayseri. Aug. 31.

204391. AGROSTIS ALBA L.

Redtop.

No. 286. About forty km. southwest of Sivas. Sept. 2.

204392. AGROSTIS sp.

No. 295. Pasa Fabricasi, Sivas. Sept. 3.

204393 and 204394. AGROSTIS ALBA L.

Redtop.

204393. No. 320. Korucayri, near Hafik, Sivas. Sept. 4.

204394. No. 342. Kurbagali, north of Zara, Sivas. Sept. 4.

204395 and 204396. AGROSTIS SEMIVERTICILLATA (Forsk.) C. Chr.

204395. No. 406. Sultan Suyu Harasi, Malatya. Sept. 7. Perennial.

204396. No. 498. Near Tercan, Erzincan. Sept. 10. Perennial.

204397. AGROSTIS TENUIS Sibth.

No. 565. Base of Tosik Mountain, Erzurum. Sept. 13. Perennial.

204398. ALOPECURUS sp. Poaceae.

No. 256. Kerim Oglu Gardens, near Pinarbasi, Kayseri. Sept. 1.

204399. BROMUS JAPONICUS Thunb. Poaceae.

No. 147. Yozgat. Aug. 29.

204400. ALOPECURUS sp. Poaceae.

No. 149. Yozgat. Aug. 29.

204401. ALOPECURUS ARUNDINACEUS Poir.

No. 214. Near Kayseri. Aug. 31.

204402. ALOPECURUS sp.

No. 303. Sivas. Sept. 3. Annual.

204403. ALOPECURUS sp.

No. 314. Korucayri, near Hafik, Sivas. Sept. 4.

204404. ALOPECURUS ARUNDINACEUS Poir.

No. 366. Thirty-six km. southeast of Sivas. Sept. 5.

204405. ASTRAGALUS sp. Fabaceae.

No. 294. Pasa Fabricasi, near Sivas. Sept. 3.

## 204378 to 204529—Continued

- 204406 and 204407. *AVENA FATUA* L. Poaceae. Wild oats.  
204406. No. 83. One hundred and ten km. southeast of Ankara. Aug. 28.  
204407. No. 267. Kerim Oglu Gardens, near Pinarbasi, Kayseri. Sept. 1.  
204408. *BECKMANNIA ERUCAEFORMIS* (L.) Host. Poaceae.  
No. 555. Near Norsen, Erzurum. Sept. 13.  
204409. *BETA TRIGYNA* Waldst. & Kit. Chenopodiaceae.  
No. 552. Erzurum. Sept. 13.  
204410. *BRIZA MINOR* L. Poaceae.  
No. 264. Kerim Oglu Gardens, near Pinarbasi, Kayseri. Sept. 1.  
204411. *BRIZA* sp.  
No. 546. Gumusane. Sept. 12. Perennial.  
204412. *BROMUS* sp. Poaceae.  
No. 64. Forty km. southeast of Ankara, along Route 60. Aug. 28.  
204413 to 204417.  
One hundred and ten km. southeast of Ankara, along Route 60. Aug. 28.  
204413. *BROMUS* sp.  
No. 81.  
204414. *BROMUS* sp.  
No. 88.  
204415. *BROMUS* sp.  
No. 89.  
204416. *BROMUS* sp.  
No. 91.  
204417. *BROMUS* sp.  
No. 95.  
204418. *BROMUS* sp.  
No. 148. Yozgat. Aug. 29.  
204419. *BROMUS* sp.  
No. 257. Kerim Oglu Gardens, near Pinarbasi, Kayseri. Sept. 1.  
204420. *BROMUS* sp.  
No. 288. Near Sivas. Sept. 2.  
204421. *BROMUS* sp.  
No. 310. Korucayri, near Hafik, Sivas. Sept. 4. Annual.  
204422. *BROMUS* sp.  
No. 316. Korucayri, near Hafik, Sivas. Sept. 4.  
204423. *BROMUS* sp.  
No. 318. Korucayri, near Hafik, Sivas. Sept. 4. Annual.  
204424. *BROMUS PSEUDODANTHONIAE* Drobov.  
No. 321. Korucayri, near Hafik, Sivas. Sept. 4. Annual.  
204425. *BROMUS* sp.  
No. 328. Near Zara, Sivas. Sept. 4.

## 204378 to 204529—Continued

204426. *BROMUS* sp.

No. 340. Kurbagali, north of Zara, Sivas. Sept. 4. Annual.

204427. *BROMUS* sp.

No. 341. Kurbagali, north of Zara, Sivas. Sept. 4.

204428. *BROMUS* sp.

No. 348. Kurbagali, north of Zara, Sivas. Sept. 4.

204429. *BROMUS* sp.

No. 403. Sultan Suyu Harasi, Malatya. Sept. 7.

204430. *BROMUS JAPONICUS* Thunb.

No. 404. Sultan Suyu Harasi, Malatya. Sept. 7.

204431. *BROMUS* sp.

No. 451. Near First River between Malatya and Elazig. Sept. 8. Annual.

204432 and 204433. *BROMUS INERMIS* Leyss.

204432. No. 538. Base of Kop Mountain, Gumusane. Sept. 12. Perennial.

204433. No. 584. Erzurum. Sept. 14. Perennial.

204434. *BROMUS* sp.

No. 96. One hundred and ten km. southeast of Ankara, along Route 60. Aug. 28.

204435. *CALAMAGROSTIS EPIGEIOS* (L.) Roth. Poaceae.

No. 535. Kop Mountain, Gumusane. Sept. 12.

204436. *CALAMAGROSTIS* sp.

No. 269. Kerim Oglu Gardens, near Pinarbasi, Kayseri. Sept. 1.

204437. *CHRYSOPOGON GRYPHUS* (L.) Trin. Poaceae.

No. 106. Southeast of Ankara, along Route 60. Aug. 28.

204438. *CYNODON* sp. Poaceae.

No. 90. One hundred and ten km. southeast of Ankara, along Route 60. Aug. 28.

204439. *CYNOSURUS CRISTATUS* L. Poaceae.

Crested dogtail.

No. 334. Kurbagali, north of Zara, Sivas. Sept. 4.

204440 to 204443. *DACTYLIS GLOMERATA* L. Poaceae.

Orchard grass.

204440. No. 245. Bunyan between Kayseri and Pinarbasi, Kayseri. Sept. 1.

204441. No. 276. Pinarbasi, Kayseri. Sept. 1.

204442. No. 534. Kop Mountain, Gumusane. Sept. 12.

204443. No. 572. Base of Tosik Mountain, Erzurum. Sept. 13.

204444. *ELYMUS CAPUT-MEDUSAE* L. Poaceae.

Grass.

No. 78. Fifty-three km. southeast of Ankara, along Route 60. Aug. 28.

204445. *ELYMUS CRINITUS* Schreb.

No. 100. One hundred and ten km. southeast of Ankara. Aug. 28.



## 204378 to 204529—Continued

204446 and 204447. *FESTUCA ARUNDINACEA* Schreb. Poaceae. **Fescue.**

204446. No. 74. Fifty-three km. southeast of Ankara, along Route 60. Aug. 28.

204447. No. 266. Kerim Oglu Gardens, near Pinarbasi, Kayseri. Sept. 1.

204448. *FESTUCA MEGALURA* Nutt.

No. 541. Kop Mountain, Gumusane. Sept. 12.

204449. *GLYCERIA* sp. Poaceae.

No. 373. Ulas, Sivas. Sept. 5.

204450. *GLYCERIA* sp.

No. 554. Near Norsen, Erzurum. Sept. 13. Perennial.

204451 and 204452. *KOELERIA CRISTATA* (L.) Pers. Poaceae.

204451. No. 277. Pinarbasi, Kayseri. Sept. 1.

204452. No. 338. Kurbagali, Sivas. Sept. 4.

204453. *KOELERIA* sp.

No. 65. Forty km. southeast of Ankara, along Route 60. Aug. 28.

204454. *KOELERIA* sp.

No. 66. Forty km. southeast of Ankara, along Route 60. Aug. 28.

204455. *KOELERIA* sp.

No. 372. Ulas, Sivas. Sept. 5.

204456. *LOLIUM* sp. Poaceae.

No. 323. Korucayri, near Hafik, Sivas. Sept. 4.

204457 to 204460. *MEDICAGO FALCATA* L. Fabaceae. **Yellow-flowered alfalfa.**

204457. No. 125. Yozgat. Aug. 29.

204458. No. 509. Erzincan. Sept. 10.

204459. No. 576. Erzurum. Sept. 14.

204460. No. 582. Erzurum. Sept. 14.

204461 and 204462. *MEDICAGO SATIVA* L. **Alfalfa.**

204461. No. 459. Near Elazig. Sept. 9.

204462. No. 480. Near Kamut, Tunceli. Sept. 10.

204463. *MEDICAGO* sp.

No. 211. Kayseri. Aug. 31.

204464. *MEDICAGO* sp.

No. 297. Pasa Fabricasi, near Sivas. Sept. 3.

204465. *MELICA* sp. Poaceae.

No. 278. Pinarbasi, Kayseri. Sept. 1.

204466 and 204467. *MELILOTUS OFFICINALIS* (L.) Lam. Fabaceae. **Yellow sweetclover.**

204466. No. 239. Bunyan, between Kayseri and Pinarbasi. Sept. 1.

204467. No. 512. Erzurum. Sept. 12.

204468. *PAEONIA* sp. Ranunculaceae. **Peony.**

No. 531. Kop Mountain, Gumusane. Sept. 12.

## 204378 to 204529—Continued

204469 to 204477. *PHLEUM ARENARIUM* L. Poaceae.

204469. No. 104. One hundred and sixty-seven km. southeast of Ankara, along Route 60. Aug. 28.

204470. No. 105. One hundred and sixty-seven km. southeast of Ankara, along Route 60. Aug. 28.

204471. No. 131. Yozgat. Aug. 29.

204472. No. 238. Near Urgup, Kayseri. Aug. 31.

204473. No. 283. Forty-four km. northeast of Kayseri. Sept. 2.

204474. No. 296. Pasa Fabricasi, Sivas. Sept. 3.

204475. No. 339. Kurbagali, north of Zara, Sivas. Sept. 4.

204476. No. 488. Near Pulumur, Tunceli. Sept. 10.

204477. No. 564. Base of Tosik Mountain, Erzurum. Sept. 13.

204478. *PHLEUM PRATENSE* L.

Timothy.

No. 333. Kurbagali, north of Zara, Sivas. Sept. 4.

204479. *PHLEUM* sp.

No. 545. Kop Mountain, Gumusane, Sept. 12. Perennial.

204480. *PHLEUM PRATENSE* L.

Timothy.

No. 553. Near Norsen, Erzurum. Sept. 13. Perennial.

204481 and 204482. *POA BULBOSA* L. Poaceae.204481. No. 134. In *Pinus nigra* forest above Yozgat. Aug. 29.

204482. No. 298. Pasa Fabricasi, near Sivas. Sept. 3.

204483. *POA* sp.

No. 244. Bunyan, between Kayseri and Pinarbasi. Sept. 1.

204484. *POA TRIVIALIS* L.

Rough bluegrass.

No. 261. Kerim Oglu Gardens, near Pinarbasi, Kayseri. Sept. 1.

204485 to 204487. *POA COMPRESSA* L. Poaceae.

204485. No. 263. Kerim Oglu Gardens, near Pinarbasi, Kayseri. Sept. 1.

204486. No. 279. Pinarbasi, Kayseri. Sept. 1.

204487. No. 291. Pasa Fabricasi, Sivas. Sept. 3.

204488. *POA PRATENSIS* L.

Kentucky bluegrass.

No. 322. Korucayri, near Hafik, Sivas. Sept. 4. Perennial.

204489. *POA* sp.

No. 394. Sultan Suyu Harasi, Malatya. Sept. 7. Perennial.

204490. *POA PRATENSIS* L.

Kentucky bluegrass.

No. 537. Kop Mountain, Gumusane. Sept. 12. Perennial.

204491. *POA* sp.

No. 553. Erzurum. Sept. 13. Perennial.

204492. *POA* sp.

No. 571. Base of Tosik Mountain, Erzurum. Sept. 13. Perennial.

204493. *SECALE CEREALE* L. Poaceae.

Rye.

No. 551. Near Norsen, Erzurum. Sept. 13.

**204378 to 204529—Continued**

**204494.** *SPOROBOLUS* sp. Poaceae.

No. 166. Forty-three km. northwest of Kayseri at Kizil River, Kayseri. Aug. 30.

**204495.** *TRIFOLIUM ALPESTRE* L. Fabaceae.

No. 129. *Pinus nigra* forest above Yozgat. Aug. 29.

**204496 to 204499.** *TRIFOLIUM CAMPESTRE* Schreb.

**204496.** No. 69. Forty km. southeast of Ankara, along Route 60. Aug. 28.

**204497.** No. 93. One hundred and ten km. southeast of Ankara, along Route 60. Aug. 28.

**204498.** No. 99. One hundred and ten km. southeast of Ankara, along Route 60. Aug. 28.

**204499.** No. 126. Courtyard of provincial government building, Yozgat. Aug. 29.

**204500.** *TRIFOLIUM FRAGIFERUM* L.

**Strawberry clover.**

No. 337. Kurbagali, north of Zara, Sivas. Sept. 4. Creeping perennial.

**204501.** *TRIFOLIUM RESUPINATUM* L.

**Persian clover.**

No. 123. Courtyard of provincial government building, Yozgat. Aug. 29.

**204502 to 204508.** *TRIFOLIUM PRATENSE* L.

**Red clover.**

**204502.** No. 61. Forty km. southeast of Ankara, along Route 60, near "Beyran Forest." Aug. 28.

**204503.** No. 222. Near Kayseri. Aug. 31.

**204504.** No. 242. Bunyan, between Kayseri and Pinarbasi, Kayseri. Sept. 1.

**204505.** No. 275. Pinarbasi, Kayseri. Sept. 1.

**204506.** No. 292. Pasa Fabricasi, near Sivas. Sept. 3.

**204507.** No. 382. Near Malatya. Sept. 6.

**204508.** No. 330. Near Zara, Sivas. Sept. 4.

**204509.** *TRIFOLIUM FRAGIFERUM* L.

**Strawberry clover.**

No. 70. Forty km. southeast of Ankara, along Route 60, near "Beyran Forest." Aug. 28.

**204510 and 204511.** *TRIFOLIUM REPENS* L.

**White clover.**

**204510.** No. 128. Courtyard of provincial building, Yozgat. Aug. 29.

**204511.** No. 77. Fifty-three km. southeast of Ankara, along Route 60. Aug. 28.

**204512.** *TRIFOLIUM PRATENSE* L.

**Red clover.**

No. 137. *Pinus nigra* forest above Yozgat. Aug. 29.

**204513 and 204514.** *TRIFOLIUM REPENS* L.

**White clover.**

**204513.** No. 140. Valley below Yozgat. Aug. 29.

**204514.** No. 212. Near Kayseri. Aug. 31.

**204515.** *TRIFOLIUM FRAGIFERUM* L.

**Strawberry clover.**

No. 284. Fifty km. southwest of Sivas. Sept. 2.

**204516.** *TRIFOLIUM REPENS* L.

**White clover.**

No. 479. Near Kamut, Tunceli. Sept. 10. Creeping perennial.

## 204378 to 204529—Continued

204517. TRIFOLIUM PRATENSE L.

Red clover.

No. 94. One hundred and ten km. southeast of Ankara, along Route 60. Aug. 28.

204518. TRIFOLIUM ARVENSE L.

Rabbit-foot clover.

No. 130. *Pinus nigra* forest above Yozgat. Aug. 29.

204519. ANTHYLLIS VULNERARIA var. STENOPHYLLA Boiss. Fabaceae.

No. 137a. *Pinus nigra* forest above Yozgat. Aug. 29.

204520. TRIFOLIUM sp. Fabaceae.

No. 168. Kayseri. Aug. 30. Creeping perennial.

204521. TRIFOLIUM FRAGIFERUM L.

Strawberry clover.

No. 213. Near Kayseri. Aug. 31.

204522. TRIFOLIUM sp.

No. 285. Fifty km. southwest of Sivas. Sept. 2.

204523. TRIFOLIUM sp.

No. 315. Korucayri, near Hafik, Sivas. Sept. 4. Creeping perennial.

204524. TRIFOLIUM HYBRIDUM L.

Alsike clover.

No. 346. Kurbagali, north of Zara, Sivas. Sept. 4.

204525. TRIFOLIUM sp.

No. 415. Malatya. Sept. 7.

204526. TRIFOLIUM CAMPESTRE Schreb.

No. 511. Near Erzurum. Sept. 11.

204527. TRIGONELLA FOENUM-GRÆCUM L. Fabaceae.

Fenugreek.

No. 159. Yozgat bazaar. Aug. 29.

204528. TRISETUM sp. Poaceae.

No. 487. Near Pulumur, Tunceli. Sept. 10.

204529. TRISETUM sp.

No. 536. Kop Mountain, Gumusane. Sept. 12.

204530. CITRUS AURANTIFOLIA (Christm.) Swingle. Rutaceae.

Lime.

From Israel. Seeds presented by Dr. K. Mandel, Agricultural Research Station, Rehovoth. Received Jan. 6, 1953.

204531. FRAGARIA. Rosaceae.

Strawberry.

From Peru. Seeds presented by S. C. Harland, Lima. Received Jan. 7, 1953.

## 204532 to 204539.

From the Union of South Africa. Bulbs collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Jan. 8, 1953.

Collected in 1952.

204532. BULBINE sp. Liliaceae.

No. 1285. On mountain slope above Witsand Bay on Cape Peninsula, Cape Province. Nov. 29.

204533. DRIMIA sp. Liliaceae.

No. 1283. On mountain slope above Witsand Bay on Cape Peninsula. Cape Province. Nov. 29.



**204532 to 204539—Continued**

**204534 and 204535.** *HAEMANTHUS COCCINEUS* L. Amaryllidaceae.

**204534.** No. 1291. Between Paarl and Worcester, Cape Province. Nov. 30.

**204535.** No. 1301. On Piquetberg Mountain, above Piquetberg, Cape Province. Nov. 21.

**204536.** *CHASMANTHE FLORIBUNDA* (Salisb.) N. E. Br. Iridaceae.

No. 1265. On west slopes of Kobe Mountains, southeast Van Rhynsdorp, Cape Province. (Bulbs.)

**204537.** *URGINEA ALTISSIMA* (L. f.) Baker. Liliaceae.

No. 1272. De Doorna, Cape Province. (Bulbs.)

**204538.** *URGINEA FRAGRANS* (Jacq.) Steinh.

No. 1254. Seventeen miles south of Klaver, Cape Province. (Bulbs.)

**204539.** (Undetermined.)

No. 1276. Near Van Rhynsdorp, Cape Province. (Bulbs.)

**204540.** *GOSSYPIUM TOMENTOSUM* Nutt. Malvaceae. **Cotton.**

From Hawaii. Seeds presented by the Hawaiian Sugar Planters' Association, Experiment Station, Honolulu. Received Jan. 8, 1953.

**204541 to 204543.** *TRITICUM AESTIVUM* L. Poaceae.

**Common wheat.**

From Peru. Seeds presented by A. F. Swanson, Office of Foreign Agricultural Relations, United States Department of Agriculture, Lima. Received Jan. 8, 1953.

**204541.** Gb. (Me<sup>2</sup>-S). Mex. 1525.

**204542.** Kenia. 155.

**204543.** Marina (6-1) I. V. F10.

**204544 to 204647.**

From Turkey. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils and Agricultural Engineering, Beltsville, Md. Received Jan. 9, 1953.

Collected in 1952.

**204544 and 204545.** *ABELMOSCHUS ESCULENTUS* (L.) Moench. Malvaceae. **Okra.**

**204544.** No. 153. Yozgat bazaar. Aug. 29.

**204545.** No. 397. Sultan Suyu Harasi, Malatya. Sept. 7.

**204546.** *AEGILOPS OVATA* L. Poaceae.

No. 97. One hundred and ten km. southeast of Ankara, along Route 60. Aug. 28.

**204547.** *AEGILOPS* sp.

No. 86. One hundred and ten km. southeast of Ankara, along Route 60. Aug. 28.

**204548.** *AEGILOPS* sp.

No. 120. Near Kerkoy, Kirsehir. Aug. 29.

**204549.** *AGROPYRON* sp. Poaceae.

No. 558. Base of Tosik Mountain, Erzurum. Sept. 13. Perennial.

**204550.** *AGROPYRON* spp.

No. 533. Kop Mountain, Gumusane. Sept. 12. (Mixture.)

## 204544 to 204647—Continued

204551. *ALLIUM* sp. Liliaceae.  
No. 107. Between Malya and Yerkoy, Yozgat. Aug. 29.
204552. *ALLIUM* sp.  
No. 133. *Pinus nigra* forest above Yozgat. Aug. 29.
204553. *ALLIUM* sp.  
No. 350. Kurbagali, north of Zara, Sivas. Sept. 4.
204554. *ALLIUM* sp.  
No. 365. Ulas, Sivas. Sept. 5.
204555. *ALLIUM PORRUM* L. Leek.  
No. 398. Sultan Suyu Harasi, Malatya. Sept. 7.
204556. *ANETHUM GRAVEOLENS* L. Apiaceae Dill.  
No. 150. Yozgat bazaar. Aug. 29.
204557. *APIUM GRAVEOLENS* L. Apiaceae. Celery.  
No. 204. Kayseri bazaar. Aug. 30.
204558. *ASPARAGUS OFFICINALIS* L. Liliaceae. Asparagus.  
No. 399. Sultan Suyu Harasi, Malatya. Sept. 7.
204559. *ASTRAGALUS* sp. Fabaceae.  
No. 116. Between Malya and Yerkoy, Yozgat. Aug. 29.
204560. *BETA LOMATOGONA* Fisch. & Mey. Chenopodiaceae.  
No. 524. Base of Kop Mountain, Gumusane. Sept. 12.
204561. *BETA TRIGYNA* Waldst. & Kit.  
No. 528. Base of Kop Mountain, Gumusane. Sept. 12.
- 204562 and 204563. *BRASSICA OLERACEA* var. *CAPITATA* L. Brassicaceae. Cabbage.  
204562. No. 145. Yozgat bazaar. Aug. 29.  
204563. No. 201. Kayseri bazaar. Aug. 30.
- 204564 and 204565. *CAPSICUM FRUTESCENS* L. Solanaceae. Redpepper.  
204564. No. 147. Yozgat bazaar. Aug. 29.  
204565. No. 208. Kayseri bazaar. Aug. 30.
204566. *CAREX* sp. Cyperaceae.  
No. 559. Base of Tosik Mountain, Erzurum. Sept. 13.
- 204567 to 204569. *CUCUMIS SATIVUS* L. Cucurbitaceae. Cucumber.  
204567. No. 156. Yozgat bazaar. Aug. 29.  
204568. No. 203. Kayseri bazaar. Aug. 30.  
204569. No. 210. Kayseri bazaar. Aug. 30.
- 204570 to 204574. *DACTYLIS GLOMERATA* L. Poaceae. Orchard grass.  
204570. No. 327. Near Zara, Sivas. Sept. 4.  
204571. No. 336. Kurbagali, north of Zara, Sivas. Sept. 4.  
204572. No. 358. Ulas, Sivas. Sept. 5.  
204573. No. 475. Sakultutan Mountain, north of Elazig, Tunceli. Sept. 10.  
204574. No. 506. Three km. east of Tercan, Erzincan. Sept. 10.

## 204544 to 204647—Continued

204575. *DAUCUS CAROTA* L. Apiaceae. Carrot.  
No. 195. Kayseri bazaar. Aug. 30.
204576. *DIGITARIA* sp. Poaceae.  
No. 381. Near Malatya. Sept. 6. Perennial.
204577. *ELYMUS CRINITUS* Schreb. Poaceae.  
No. 343. Kurbagali, north of Zara, Sivas. Sept. 4. Annual.
204578. *HELIANTHUS ANNUUS* L. Asteraceae. Sunflower.  
No. 455. Garden at Elazig. Sept. 8.
- 204579 and 204580. *HORDEUM BULBOSUM* L. Poaceae. Grass.  
204579. No. 401. Sultan Suyu Harasi, Malatya. Sept. 7.  
204580. No. 401. Sultan Suyu Harasi, Malatya. Sept. 7. (Bulbs.)
204581. *HORDEUM* sp. Barley.  
No. 146. Yozgat. Aug. 29.
204582. *HORDEUM* sp.  
No. 302. Sivas. Sept. 3. Annual.
- 204583 to 204585. *LACTUCA SATIVA* L. Cichoriaceae. Lettuce.  
204583. No. 149. Yozgat bazaar. Aug. 29.  
204584. No. 207. Kayseri bazaar. Aug. 30.  
204585. No. 457. Garden at Elazig. Sept. 9.
204586. *LOTUS CORNICULATUS* L. Fabaceae. Birdsfoot trefoil.  
No. 570. Base of Tosik Mountain, Erzurum. Sept. 13.
204587. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato.  
No. 155. Yozgat bazaar. Aug. 29.
204588. *MALUS* sp. Malaceae.  
No. 281. Tahar, near Urgup, Kayseri. Aug. 31.
204589. *MEDICAGO LUPULINA* L. Fabaceae. Black medic.  
No. 518. Near Erzurum. Sept. 12.
- 204590 to 204593. *MEDICAGO SATIVA* L. Alfalfa.  
204590. No. 246. Between Kayseri and Pinarbasi. Sept. 1.  
204591. No. 513. State Breeding Station, Erzurum. Sept. 12.  
204592. No. 515. Near Erzurum. Sept. 12.  
204593. No. 550. Near Norsen, Erzurum. Sept. 13.
- 204594 to 204597. *ONOBRYCHIS VICIAEFOLIA* Scop. Fabaceae. Sainfoin.  
204594. No. 247. Bunyan, between Kayseri and Pinarbasi. Sept. 1.  
204595. No. 514. State Breeding Station, Erzurum. Sept. 12.  
204596. No. 526. Kop Mountain, Gumusane. Sept. 12.  
204597. No. 567. Base of Tosik Mountain, Erzurum. Sept. 13.
204598. *PANICUM MILIACEUM* L. Poaceae. Proso.  
No. 144. In valley below Yozgat. Aug. 29.
204599. *PETROSELINUM CRISPUM* (Mill.) Nym. Apiaceae. Parsley.  
No. 148. Yozgat bazaar. Aug. 29.

## 204544 to 204647—Continued

- 204600 to 204603. *PHASEOLUS VULGARIS* L. Fabaceae. Common bean.  
 204600. No. 205. Kayseri bazaar. Aug. 30.  
 204601. No. 146. Yozgat bazaar. Aug. 29.  
 204602. No. 300. Pasa Fabricasi, Sivas. Sept. 3.  
 204603. No. 408. Dogansehir, Malatya. Sept. 7.
204604. *PRUNUS ARMENIACA* L. Amygdalaceae. Apricot.  
 No. 241. Tahar, near Urgup, Kayseri. Sept. 1.
204605. *PYRUS* sp. Malaceae.  
 No. 280. Tahar, near Urgup, Kayseri. Aug. 31.
- 204606 and 204607. *RAPHANUS SATIVUS* L. Brassicaceae. Radish.  
 204606. No. 193. Kayseri bazaar. Aug. 30.  
 204607. No. 206. Kayseri bazaar. Aug. 30.
204608. *ROSA* sp. Rosaceae.  
 No. 490. Near Erzurum. Sept. 11.
204609. *ROSA* sp.  
 No. 492. Near Erzurum. Sept. 11.
204610. *ROSA* sp.  
 No. 504. Near Erzurum. Sept. 11.
204611. *RUBUS* sp. Rosaceae.  
 No. 138. *Pinus nigra* forest above Yozgat. Aug. 29.
204612. *RUBUS* sp.  
 No. 226. Forty-five km. southwest of Kayseri. Aug. 31.
204613. *RUBUS* sp.  
 No. 374. Sivas. Sept. 4.
- 204614 to 204622. *SECALE CEREALE* L. Poaceae. Rye.  
 204614. No. 287. Near Sivas. Sept. 2.  
 204615. No. 307. Banks near Sivas. Sept. 3.  
 204616. No. 378. Deliktas, Sivas. Sept. 5.  
 204617. No. 470. Near Hafik, along Hurat River, Elazig. Sept. 9.  
 204618. No. 477. Sakultutan Mountain, north of Elazig, Tunceli. Sept. 10.  
 204619. No. 508. Erzincan. Sept. 10.  
 204620. No. 499. Banks near Pulumur, Tunceli. Sept. 10.  
 204621. No. 507. Near Tercan, Erzincan. Sept. 10.  
 204622. No. 517. Erzurum. Sept. 12.
204623. *SESAMUM INDICUM* L. Pedaliaceae. Sesame.  
 No. 461. Elazig. Sept. 9.
- 204624 and 204625. *SETARIA VIRIDIS* (L.) Beauv. Poaceae.  
 204624. No. 163. Forty-three km. northwest of Kayseri at Kizil River. Aug. 30.  
 204625. No. 87. One hundred and ten km. southeast of Ankara, along Route 60. Aug. 28.



## 204544 to 204647—Continued

204626 and 204627. *SETARIA VERTICILLATA* (L.) Beauv.

204626. No. 143. In valley below Yozgat. Aug. 29.

204627. No. 293. Pasa Fabricasi, near Sivas. Sept. 3.

204628. *SETARIA VIRIDIS* (L.) Beauv.

No. 305. Sivas. Sept. 3. Annual.

204629. *SETARIA GLAUCA* (L.) Beauv.

No. 331. Near Zara, Sivas. Sept. 14. Annual.

204630. *SOLANUM MELONGENA* L. Solanaceae.

Eggplant.

No. 197. Kayseri bazaar. Aug. 30.

204631. *SORGHUM VULGARE* Pers. Poaceae.

No. 141. Valley below Yozgat. Aug. 29.

204632. *SPINACIA OLERACEA* L. Chenopodiaceae.

Spinach.

No. 361. Garden at Ulas, Sivas. Sept. 5.

204633. *STIPA* sp. Poaceae.

No. 117. Between Malya and Yerkoy, Yozgat. Aug. 29.

204634. *STIPA* sp.

No. 473. Sakaltutan Mountain, north Elazig, Tunceli. Sept. 10.

204635. *STIPA* sp.

No. 569. Base of Tosik Mountain, Erzurum. Sept. 13.

204636. *TRIFOLIUM PRATENSE* L. Fabaceae.

Red clover.

No. 124. Courtyard, Yozgat. Aug. 29.

204637. *TRIFOLIUM FRAGIFERUM* L.

Strawberry clover.

No. 122. Courtyard, Yozgat. Aug. 29.

204638. *TRIFOLIUM* sp.

No. 132. Yozgat. Aug. 29.

204639. *TRIFOLIUM* sp.No. 139. *Pinus nigra* forest above Yozgat. Aug. 29.204640. *TRIFOLIUM FRAGIFERUM* L.

Strawberry clover.

No. 520. Erzurum. Sept. 12.

204641. *TRIFOLIUM* sp.

No. 539. Summit of Kop Mountain, Gumusane. Sept. 12.

204642 to 204645. *VICIA SATIVA* L. Fabaceae.

Common vetch.

204642. No. 351. Serefife, north of Zara, Sivas. Sept. 4.

204643. No. 352. Serefife, north of Zara, Sivas. Sept. 4.

204644. No. 519. Near Erzurum. Sept. 12.

204645. No. 573. Base of Tosik Mountain, Erzurum. Sept. 13.

204646. *VICIA VILLOSA* Roth.

Hairy vetch.

No. 521. Near Erzurum. Sept. 12.

204647. *VIGNA SINENSIS* (Torner) Savi. Fabaceae.

Cowpea.

No. 463. Near Elazig. Sept. 9.

204648. *QUERCUS LUSITANICA* Lam. Fagaceae.

Oak.

From Spain. Seeds presented by the Instituto Forestal de Investigaciones y Experiencias, Madrid. Received Jan. 9, 1953.

**204649. AGAVE sp. Amaryllidaceae.**

From California. Plants growing at the Huntington Gardens, San Marino. Numbered Jan. 12, 1953.

Collected by H. S. Gentry and William B. Fox in Mexico.

No. 11933. Six miles west of Calmalli, Baja California. May 18, 1952. Medium-sized glaucous gray rosettes with trunk about 3 feet long.

**204650. QUERCUS SUBER L. Fagaceae. Cork oak.**

From Spain. Seeds presented by the Instituto Forestal De Investigaciones y Experiencias, Madrid. Received Jan. 13, 1953.

**204651 to 204653. GLYCINE MAX (L.) Merrill. Fabaceae. Soybean.**

From Germany. Seeds presented by Plant Breeding Institute, Weihenstephan bei Freising. Received Jan. 13, 1953.

204651. *Dieckmann's Heimkraft*.

204652. *Von Burklin-Wolf's Wachenheimer*.

204653. *Strengs Weihenstephaner Schwarze*.

**204654 to 204666.**

From the Union of South Africa. Bulbs and stolons collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Jan. 13, 1953.

**204654. AMMOCHARIS CORANICA Herb. Amaryllidaceae.**

No. 1449. Grassveld, Pietermaritzburg, Natal. Dec. 25, 1952.

**204655. BRUNSVIGIA sp. Amaryllidaceae.**

No. 1457. Grassveld near Howick Falls, Natal. Dec. 26, 1952.

**204656. CYRTANTHUS sp. Amaryllidaceae.**

No. 1453. Grassveld near Karkloof River, north of Howick Falls, Natal. Dec. 26, 1953.

**204657. DIGITARIA sp. Poaceae.**

No. 1574. Twenty-eight miles north of Kroonstad, Orange Free State. Jan. 6, 1953.

**204658. DRIMIOPSIS SAUNERSIAE Baker. Liliaceae.**

No. 1445. Grassy areas bordering forest at Isipingo Beach, near Durban, Natal. Dec. 23, 1952.

**204659. DRIMIOPSIS MAXIMA Baker.**

No. 1444. Grassy areas bordering forest near Isipingo Beach, near Durban, Natal. Dec. 23, 1952.

**204660. HAEMANTHUS ALBOMACULATUS Baker. Amaryllidaceae.**

No. 1553. Moist forested areas near Isipingo Beach, near Durban, Natal. Dec. 23, 1952.

**204661. HAEMANTHUS AMARYLLOIDES Jacq.**

No. 1556. Twenty miles southwest of Brandfort, Orange Free State. Jan. 5, 1953.

**204662. HAEMANTHUS HIRSUTUS Baker.**

No. 1438. Natal. Dec. 21, 1952.

**204663. HAEMANTHUS NATALENSIS Pappe.**

No. 1442. Near Isipingo Beach, near Durban, Natal. Dec. 23, 1952.

## 204654 to 204666—Continued

204664. HAEMANTHUS NELSONII Baker.

No. 1577. Transvaal. Jan. 6, 1953.

204665. HYPOXIS sp. Amaryllidaceae.

No. 1431. Natal. Dec. 21, 1952.

204666. HYPOXIS sp.

No. 1424. Twenty miles northwest of Bolkorust, Transvaal. Dec. 18, 1952.

204667. PISUM SATIVUM L. Fabaceae.

Pea.

From the Netherlands. Seeds presented by the Centraal Bureau, Veredelingsbedrijf Van Landbouwgewassen, Hoofddorp. Received Jan. 15, 1953.

*Stijfstro.*

204668. QUERCUS AEGILOPS L. Fagaceae.

Oak.

From Turkey. Seeds presented by Refik Erdem, I. U. Orman Fakultesi, Istanbul. Received Jan. 15, 1953.

*Palamut Mesesi.*

204669. HOMERIA sp. Iridaceae.

From the Union of South Africa. Bulbs collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Jan. 15, 1953.

No. 1579. Naauwpoort, Cape Province. Jan. 2, 1953.

## 204670 to 204739.

From Turkey. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Jan. 16, 1953.

Collected in 1952.

204670. ABELMOSCHUS ESCULENTUS (L.) Moench. Malvaceae.

Okra.

No. 186. Kayseri bazaar. Aug. 30.

204671 and 204672. ALLIUM CEPA L. Liliaceae.

Onion.

204671. No. 151. Yozgat bazaar. Aug. 29.

204672. No. 181. Kayseri bazaar. Aug. 30.

204673. ALLIUM PORRUM L.

Leek.

No. 200. Kayseri bazaar. Aug. 30.

204674 and 204675. ALLIUM CEPA L.

Onion.

204674. No. 236. Garden near Urgup, Kayseri. Aug. 31.

204675. No. 237. Garden near Urgup, Kayseri. Aug. 31.

204676. ALLIUM sp.

No. 75. Fifty-three km. southeast of Ankara along Route 60. Aug. 28.

204677 and 204678. BETA VULGARIS L. Chenopodiaceae.

Beet.

204677. No. 174. Kayseri bazaar. Aug. 30.

204678. No. 178. Kayseri bazaar. Aug. 30.



## 204670 to 204739—Continued

- 204679 to 204681. *BRASSICA OLERACEA* var. *CAPITATA* L. Brassicaceae. Cabbage.
204679. No. 441. Malatya bazaar. Sept. 7.
204680. No. 442. Malatya bazaar. Sept. 7.
204681. No. 445. Malatya bazaar. Sept. 7.
204682. *BRASSICA* sp.
- No. 190. Kayseri bazaar. Aug. 30.
204683. *RAPHANUS SATIVUS* L. Brassicaceae. Radish.
- No. 196. Kayseri bazaar. Aug. 30.
- 204684 to 204688. *CAPSICUM FRUTESCENS* L. Solanaceae. Redpepper.
204684. No. 154. Yozgat bazaar. Aug. 29.
204685. No. 188. Kayseri bazaar. Aug. 30.
204686. No. 199. Kayseri bazaar. Aug. 30.
204687. No. 428. Malatya bazaar. Sept. 7.
204688. No. 440. Malatya bazaar. Sept. 7.
204689. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. Watermelon.
- No. 152. Yozgat bazaar. Aug. 29.
- 204690 to 204692. *CUCUMIS SATIVUS* L. Cucurbitaceae. Cucumber.
204690. No. 436. Malatya bazaar. Sept. 7.
204691. No. 438. Malatya bazaar. Sept. 7.
204692. No. 443. Malatya bazaar. Sept. 7.
- 204693 to 204698. *CUCURBITA PEPO* L. Cucurbitaceae. Pumpkin.
204693. No. 176. Kayseri bazaar. Aug. 30.
204694. No. 179. Kayseri bazaar. Aug. 30.
- 204695 to 204698. Malatya bazaar. Sept. 7.
204695. No. 419. 204697. No. 431.
204696. No. 423. 204698. No. 432.
- 204699 to 204701. *DACTYLIS GLOMERATA* L. Poaceae. Orchard grass.
204699. No. 58. Forty km. southeast of Ankara along Route 60. Aug. 28.
204700. No. 135. *Pinus nigra* forest above Yozgat. Aug. 29.
204701. No. 265. Kerim Oglu Gardens near Pinarbasi, Kayseri. Sept. 1.
- 204702 to 204704. *DAUCUS CAROTA* L. Apiaceae. Carrot.
204702. No. 187. Kayseri bazaar. Aug. 30.
204703. No. 209. Kayseri bazaar. Aug. 30.
204704. No. 426. Malatya bazaar. Sept. 7.
204705. *HORDEUM* sp. Poaceae. Barley.
- No. 82. One hundred and ten km. southeast of Ankara along Route 60. Aug. 28.
- 204706 to 204708. *LACTUCA SATIVA* L. Cichoriaceae. Lettuce.
204706. No. 198. Kayseri bazaar. Aug. 30.
204707. No. 416. Malatya bazaar. Sept. 7.
204708. No. 417. Malatya bazaar. Sept. 7.

## 204670 to 204739—Continued

204709. *LINUM USITATISSIMUM* L. Linaceae. Flax.  
No. 170. Kayseri bazaar. Aug. 30.
204710. *LOLIUM PERENNE* L. Poaceae. Perennial ryegrass.  
No. 230. Eighty-two km. southwest of Kayseri, near village of Yesil-Hisar, Kayseri. Aug. 31.
- 204711 to 204713. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato.  
204711. No. 180. Kayseri bazaar. Aug. 30.  
204712. No. 184. Kayseri bazaar. Aug. 30.  
204713. No. 439. Malatya bazaar. Sept. 7.
- 204714 to 204723. *PHASEOLUS VULGARIS* L. Fabaceae. Common bean.  
204714 to 204717. Kayseri bazaar. Aug. 30.  
204714. No. 172. 204716. No. 183.  
204715. No. 175. 204717. No. 202.  
204718 to 204723. Malatya bazaar. Sept. 7.  
204718. No. 418. 204721. No. 427.  
204719. No. 424. 204722. No. 434.  
204720. No. 425. 204723. No. 435.
204724. *PISUM SATIVUM* L. Fabaceae. Pea.  
No. 437. Malatya bazaar. Sept. 7.
204725. *RAPHANUS SATIVUS* L. Brassicaceae. Radish.  
No. 430. Malatya bazaar. Sept. 7.
204726. *SECALE CEREALE* L. Poaceae. Rye.  
No. 255. Between Kayseri and Pinarbasi. Sept. 1.
204727. *SETARIA VIRIDIS* (L.) Beauv. Poaceae.  
No. 80. One hundred and ten km. southeast of Ankara along Route 60. Aug. 28.
204728. *SETARIA* sp.  
No. 161. Near Malya, Kirsehir. Aug. 29.
204729. *SETARIA GLAUCA* (L.) Beauv.  
No. 228. Sixty-eight km. southwest of Kayseri, village of Yesil-Hisar, Kayseri. Aug. 31.
204730. *SETARIA VIRIDIS* (L.) Beauv.  
No. 233. Eighty-two km. southwest of Kayseri. Aug. 31.
204731. *SOLANUM MELONGENA* L. Solanaceae. Eggplant.  
No. 189. Kayseri bazaar. Aug. 30.
- 204732 to 204736. *SPINACIA OLERACEA* L. Chenopodiaceae. Spinach.  
204732. No. 173. Kayseri bazaar. Aug. 30.  
204733. No. 191. Kayseri bazaar. Aug. 30.  
204734. No. 420. Malatya bazaar. Sept. 7.  
204735. No. 421. Malatya bazaar. Sept. 7.  
204736. No. 422. Malatya bazaar. Sept. 7.
204737. *STIPA* sp. Poaceae.  
No. 160. Near Malya, Kirsehir. Aug. 29.

**204670 to 204739—Continued**204738. *VICIA FABA* L. Fabaceae.

Broadbean.

No. 171. Kayseri bazaar. Aug. 30.

204739. *VIOLA ODORATA* L. Violaceae.

No. 262. Kerim Oglu Gardens near Pinarbasi, Kayseri. Sept. 1.

**204740. DIOSCOREA NELSONII** Uline. Dioscoreaceae.From Honduras. Roots presented by the United Fruit Company, La Lima.  
Received Jan. 21, 1953.**204741 to 204752. COFFEA ARABICA** L. Rubiaceae. **Arabian coffee.**From India. Seeds presented by the Coffee Research Station, Balehonnur,  
Mysore State. Received Jan. 21, 1953.

204741. B.A. 2.

204747. B.A. 16.

204742. B.A. 3.

204748. B.A. 21.

204743. B.A. 8.

204749. B.A. 27.

204744. B.A. 10.

204750. B.A. 35.

204745. B.A. 13.

204751. B.A. 36.

204746. B.A. 14.

204752. 964-2/1.

**204753. LACTUCA SERRIOLA** L. Cichoriaceae.From the Netherlands. Seeds presented by the Botanic Garden, Amsterdam.  
Received Jan. 28, 1953.**204754. CHAENOMELES LAGENARIA** (Loisel.) Koidz. Malaceae.**Japanese quince.**From Maryland. Plant growing at the United States Plant Introduction  
Garden, Glenn Dale. Numbered Jan. 23, 1953.

Origin unknown.

**204755 to 204757. PINUS KORAIENSIS** Sieb. & Zucc. Pinaceae.**Pine.**From Japan. Seeds presented by Shigeto Fujimura, Tokyo. Received Jan.  
21, 1953.

204755. Hokkaido.

204756. Iwate-Ken.

204757. Nagano-Ken.

**204758 to 204762. BRASSICA OLERACEA** var. *BOTRYTIS* L.

Brassicaceae.

**Cauliflower.**From Switzerland. Seeds presented by Samen-Mausser Ag., Rathausbructe,  
Zürich. Received Jan. 21, 1953.204758. *Delfter Markt*.204761. *Super-Regama*.204759. *Mausers Imperator*.204762. *Weisser Riese, Fruher*.204760. *Selandia*.**204763 to 204782. BRASSICA OLERACEA** var. *BOTRYTIS* L.

Brassicaceae.

**Cauliflower.**From France. Seeds presented by Vilmorin-Andrieux, Paris. Received Jan.  
21, 1953.204763. *Ameliore d'Orgeval*.204765. *De Bagnols (1)*.204764. *D'Alger*.204766. *De Bagnols (2)*.



## 204763 to 204782—Continued

- |  |   |
|--|---|
| 204767. <i>Demi-dur de Paris.</i>                      | 204775. <i>Incomparable.</i>                |
| 204768. <i>Extra-hatif Parisien.</i>                   | 204776. <i>Lecerf.</i>                      |
| 204769. <i>Geant d'automne.</i>                        | 204777. <i>Lenormand, Pied Court.</i>       |
| 204770. <i>Geant d'Italie Hatif.</i>                   | 204778. <i>Malmaison.</i>                   |
| 204771. <i>Geant de Naples demi-hatif.</i>             | 204779. <i>Maltais.</i>                     |
| 204772. <i>Geant de Naples Hatif<br/>a Pied Court.</i> | 204780. <i>Merveille de Toutes Saisons.</i> |
| 204773. <i>Geant de Naples Tardif.</i>                 | 204781. <i>Metropole (de Mars.)</i>         |
| 204774. <i>Geant Primus.</i>                           | 204782. <i>Perfection (de Massy.)</i>       |

## 204783 to 204787.

From Iceland. Seeds presented by Ejnar Petersen, Kleif, Arskag-sstrono, Eyjafjarsysla. Received Jan. 21, 1953.

- |   |                     |
|---|---------------------|
| 204783. <i>AGROSTIS CANINA</i> L. Poaceae.      |                     |
| 204784. <i>FESTUCA RUBRA</i> L. Poaceae.        | Red fescue.         |
| 204785. <i>PHLEUM COMMUTATUM</i> Gaud. Poaceae. |                     |
| 204786. <i>POA PRATENSIS</i> L. Poaceae.        | Kentucky bluegrass. |
| 204787. <i>TRIFOLIUM REPENS</i> L. Fabaceae.    | White clover.       |

204788. *TRIFOLIUM REPENS* L. Fabaceae. White clover.

From Italy. Seeds presented by the Universita Degli Studi di Firenze, Florence. Received Jan. 21, 1953.

204789. *ALLIUM CEPA* L. Liliaceae. Onion.

From Turkey. Bulbs collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Jan. 22, 1953.

No. 932. Teachers School, Eskisehir. Oct. 10, 1952.

204790. *PRUNUS INSITITIA* L. Amygdalaceae. Bullace plum.

From Germany. Budsticks presented by the Institut für Obstbau, Geizenheim am Rhein. Received Jan. 22, 1953.

*Gehlhaars Frühzwetsche.*

204791 to 204850. *ZEA MAYS* L. Poaceae. Corn.

From Turkey. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Jan. 22, 1953.

Seeds collected in 1952.

- |   |           |
|---|-----------|
| 204791. No. 683. Near Kiransu, Trabzon.                           | Sept. 21. |
| 204792. No. 706a. Trabzon.  | Sept. 23. |
| 204793. No. 726. Between Trabzon and Macka.                       | Sept. 24. |
| 204794. No. 735. Trabzon.   | Sept. 25. |
| 204795. No. 739. Along the Black Sea between Trabzon and Giresun. | Sept. 26. |
| 204796. No. 747. Fields in the Pontus Mountains south of Giresun. | Sept. 27. |
| 204797. No. 752. Vicinity of Ordu.                                | Sept. 28. |
| 204798. No. 780. Near Havza, Samsun.                              | Sept. 29. |

## 204791 to 204850—Continued

- 204799 to 204818. Ankara University, Ankara. Oct. 8.  
204799. No. 835. 204809. No. 845.  
204800. No. 836. 204810. No. 846.  
204801. No. 837. 204811. No. 847.  
204802. No. 838. 204812. No. 848.  
204803. No. 839. 204813. No. 849.  
204804. No. 840. 204814. No. 850.  
204805. No. 841. 204815. No. 851.  
204806. No. 842. 204816. No. 852.  
204807. No. 843. 204817. No. 853.  
204808. No. 844. 204818. No. 854.
- 204819 to 204824. Eskisehir. Oct. 9.  
204819. No. 910. 204822. No. 913.  
204820. No. 911. 204823. No. 918.  
204821. No. 912. 204824. No. 948.
204825. No. 963. Market at Dinar, Afyon. Oct. 11.  
204826. No. 984. Antalya. Oct. 12.  
204827. No. 993. State Experiment Station, Antalya. Oct. 13.  
204828. No. 994. State Experiment Station, Antalya. Oct. 13.  
204829. No. 1029. Sirkisar, southwest of Elmalı, Antalya. Oct. 15.  
204830. No. 1040. Seki, Mugla. Oct. 15.  
204831. No. 1041. Seki, Mugla. Oct. 15.  
204832. No. 1054. Bwihaniye, Mugla. Oct. 15.  
204833. No. 1060. Kargi, near Fethiye, Mugla. Oct. 15.  
204834. No. 1061. Dalaman State Farm, Mugla. Oct. 16.  
204835. No. 1062. Near Karagali, Mugla. Oct. 16.  
204836. No. 1081. Karagali, Mugla. Oct. 17.  
204837. No. 1089. Yatagan, Mugla. Oct. 19.  
204838. No. 1119. Bazaar, Izmir. Oct. 20.  
204839 to 204843. Izmir. Oct. 21.  
204839. No. 1129. 204842. No. 1132.  
204840. No. 1130. 204843. No. 1135.  
204841. No. 1131.
204844. No. 1147. Karacabey Hara, Bursa. Oct. 23.  
204845. No. 1187. Samsun. Oct. 31.  
204846 to 204850. Samsun. Oct. 31.  
204846. No. 1188. 204849. No. 1191.  
204847. No. 1189. 204850. No. 1197.  
204848. No. 1190.

## 204851. PRUNUS CERASIFERA Ehrh. Amygdalaceae.

Myrobalan plum.

From Maryland. Plants growing at the United States Plant Introduction Garden, Glenn Dale. Numbered Jan. 22, 1953.

Presented by Otto Katzenstein and Company, Atlanta, Georgia. Received Dec. 9, 1939.

## 204852. PRUNUS AVIUM L. Amygdalaceae.

Sweet cherry.

From Maryland. Plants growing at the United States Plant Introduction Garden, Glenn Dale. Numbered Jan. 22, 1953.

Reese Farm. Collected by C. E. Cooley at Reese's Farm, Virginia.

## 204853 to 204935.

From Turkey. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Jan. 22, 1953.

Collected in 1952.

## 204853. AEGILOPS sp. Poaceae.

No. 476. North of Elazig, Elazig. Sept. 10. Annual.

## 204854. AGROPYRON INTERMEDIUM (Host.) Beauv. Poaceae.

No. 776. Near Havza, Samsun. Sept. 29.

## 204855. ALLIUM PORRUM L. Liliaceae.

Leek.

No. 282. Forty-four km. northeast of Kayseri. Sept. 2.

## 204856. ALYSICARPUS sp. Fabaceae.

No. 260. Kerim Oglu Gardens near Pinarbasi, Kayseri. Sept. 1.

## 204857. ALYSICARPUS sp.

No. 299. Pasa Fabricasi, near Sivas. Sept. 3.

## 204858. AVENA spp. Poaceae.

No. 309. Sivas. Sept. 3. A mixture of wild species.

## 204859 and 204860. BETA LOMATOGONA Fisch. &amp; Mey. Chenopodiaceae.

204859. No. 503. Near Tercan, Erzincan. Sept. 10.

204860. No. 595. Near Horum, Erzurum. Sept. 17.

## 204861. BROMUS sp. Poaceae.

No. 590. Erzurum. Sept. 17. Annual.

## 204862. BROMUS sp.

No. 598. Near Horum, Erzurum. Sept. 17. Annual.

## 204863. BRACHYPODIUM SYLVATICUM (Huds.) Beauv. Poaceae.

No. 685. Zigana Pass between Torul, Gumusane, and Macka, Trabzon. Sept. 21.

## 204864. BROMUS sp. Poaceae.

No. 712. Near sea level at Trabzon. Sept. 23. Annual.

## 204865. BRACHYPODIUM SYLVATICUM (Huds.) Beauv. Poaceae.

No. 713. Near sea level, Trabzon. Sept. 23. Perennial.

## 204866. BROMUS sp. Poaceae.

No. 718. Near sea level, Trabzon. Sept. 23. Annual.

## 204867. BROMUS sp.

No. 807. Camkora Forest, Ankara. Oct. 5. Annual.

## 204853 to 204935—Continued

204868. *BROMUS* sp.

No. 809. Camkora Forest, Ankara. Oct. 5. Perennial.

204869. *BROMUS* sp.

No. 825. Lake Aband, Bolu. Oct. 6. Perennial.

204870. *BROMUS* sp.

No. 826. Lake Aband, Bolu. Oct. 6. Perennial.

204871. *CORONILLA* sp. Fabaceae.

No. 510. Near Erzurum. Sept. 11.

204872. *CORONILLA* sp.

No. 593. Near Horum, Erzurum. Sept. 17. Perennial.

204873. *DACTYLIS GLOMERATA* L. Poaceae.

Orchard grass.

No. 785. Ankara. Oct. 3.

204874. *HORDEUM* sp. Poaceae.

Barley.

No. 402. Sultan Suyu Harasi, Malatya. Sept. 7. Annual.

204875. *HORDEUM* sp.

No. 777. Near Havza, Amasya. Sept. 29.

204876. *HOLCUS LANATUS* L. Poaceae.

No. 674. Zigana Pass between Torul, Gumusane, and Macka, Trabzon. Sept. 21.

204877. *INDIGOFERA* sp. Fabaceae.

No. 221. Near Kayseri. Aug. 31.

204878 to 204881. From Ankara University, Ankara.

204878. *LOLIUM MULTIFLORUM* Lam. Poaceae.

Italian ryegrass.

No. 868. Oct. 8.

204879 to 204881. *LOLIUM PERENNE* L.

Perennial ryegrass.

204879. No. 867. Oct. 8

204880. No. 874. Oct. 8.

204881. No. 1223. Oct. 31.

204882. *LOTUS CORNICULATUS* L. Fabaceae.

No. 483. Near Kamut, north of Elazig, Elazig. Sept. 10.

204883. *TETRAGONOLOBUS SILIQUOSUS* (L.) Roth. Fabaceae.

No. 219. Near Kayseri. Aug. 31.

204884. *LOTUS* sp. Fabaceae.

No. 258. Kerim Oglu Gardens near Pinarbasi, Kayseri. Sept. 1.

204885 and 204886. *MEDICAGO FALCATA* L. Fabaceae.

Yellow-flowered alfalfa.

204885. No. 771. Near Havza, Samsun. Sept. 29.

204886. No. 875. Ankara University, Ankara. Oct. 8.

204887. *MEDICAGO LUPULINA* L.

Black medic.

No. 345. Kurbagali, north of Zara, Sivas. Sept. 4.

204888. *MEDICAGO PAPILLOSA* Boiss.

No. 639. Near Susuz, Kars. Sept. 19.



## 204853 to 204935—Continued

- 204889 to 204891. *MEDICAGO SATIVA* L. Alfalfa.  
 204889. No. 772. Near Havza, Samsun. Sept. 29.  
 204890. No. 856. Ankara University, Ankara. Oct. 8.  
 204891. No. 872. Ankara University, Ankara. Oct. 8.  
 204892. *MEDICAGO* sp.  
 No. 992. Near Antalya. Oct. 12. Annual.  
 204893. *MEDICAGO* sp.  
 No. 1154. Istanbul. Oct. 24. Annual.  
 204894 and 204895. *MELILOTUS ALBA* Desr. Fabaceae. White sweetclover.  
 204894. No. 384. Near Malatya. Sept. 6.  
 204895. No. 395. Sultan Suyu Harasi, Malatya. Sept. 7. Annual.  
 204896 to 204898. *MELILOTUS OFFICINALIS* (L.) Lam. Yellow sweetclover.  
 204896. No. 793. Agriculture College experimental plots, Ankara. Oct. 3.  
 204897. No. 291. Pasa Fabricasi, near Sivas. Sept. 3.  
 204898. No. 371. Ulas, Sivas. Sept. 5.  
 204899. *MELILOTUS ALBA* Desr. White sweetclover.  
 No. 467. Near Hafik along Murat River, Elazig. Sept. 9.  
 204900 to 204902. *MELILOTUS OFFICINALIS* (L.) Lam. Yellow sweetclover.  
 204900. No. 497. Near Pulumur, Tunceli. Sept. 10.  
 204901. No. 779. Near Havza, Samsun. Sept. 29.  
 204902. No. 866. Ankara University, Ankara. Oct. 8.  
 204903. *MEDICAGO SATIVA* L. Fabaceae. Alfalfa.  
 No. 949. Harasi farm, Eskisehir. Oct. 10.  
 204904 and 204905. *PANICUM MILIACEUM* L. Poaceae. Proso.  
 204904. No. 894. Ankara University, Ankara. Oct. 8.  
 204905. No. 899. Ankara University, Ankara. Oct. 8.  
 204906. *PANICUM ANTIDOTALE* Retz.  
 No. 783. Agriculture College experimental plots, Ankara. Oct. 2.  
 204907. *PANICUM* sp.  
 No. 792. Agriculture College experimental plots, Ankara. Oct. 3.  
 204908. *PHRAGMITES COMMUNIS* Trin. Poaceae. Common reed.  
 No. 319. Korucayri, near Hafik, Sivas. Sept. 4.  
 204909. *PHLEUM PRATENSE* L. Poaceae. Timothy.  
 No. 863. Ankara University, Ankara. Oct. 8.  
 204910. *POA BULBOSA* L. Poaceae.  
 No. 804. Camkora Forest, Ankara. Oct. 5.  
 204911 to 204914. From Ismetpasa, Malatya. Sept. 6.  
 204911. *ROSA* sp. Rosaceae.  
 No. 391a.  
 204912. *ROSA* sp.  
 No. 391b.

## 204853 to 204935—Continued

## 204911 to 204914—Continued

204913. *ROSA* sp.

No. 391c.

204914. *ROSA* sp.

No. 391d.

204915. *RUBUS* sp. Rosaceae.

No. 385. Near Malatya. Sept. 6.

204916. *SECALE* sp. Poaceae.

No. 335. Kurbagali, north of Zara, Sivas. Sept. 4.

204917. *SECALE* sp.

No. 464. Near Yenikoy, Elazig. Sept. 9. Annual.

204918. *SETARIA ITALICA* (L.) Beauv. Poaceae.

Foxtail millet.

No. 895. Ankara University, Ankara. Oct. 8.

204919. *SORGHUM VULGARE* Pers. Poaceae.

No. 896. Ankara University, Ankara. Oct. 8.

204920. *SORGHUM* sp.

No. 465. Near Yenikoy, Elazig. Sept. 9. Perennial.

204921 and 204922. *TRIFOLIUM ANGUSTIFOLIUM* L. Fabaceae.

204921. No. 715. Near sea level, Trabzon. Sept. 23. Annual.

204922. No. 979. Antalya. Oct. 12. Annual.

204923. *TRIFOLIUM HYBRIDUM* L.

Alsike clover.

No. 808. Camkora Forest, Ankara. Oct. 5.

204924 to 204929. *TRIFOLIUM PRATENSE* L.

Red clover.

204924. No. 679. Zigana Pass between Torul, Gumusane, and Macka, Trabzon. Sept. 21.

204925. No. 716. Trabzon. Sept. 23.

204926. No. 789. Agriculture College experimental plots, Ankara. Oct. 3.

204927. No. 859. Ankara University, Ankara. Oct. 8.

204928. No. 937. Cay, Afyon. Oct. 10.

204929. No. 1198. Ankara University, Ankara. Oct. 31.

204930. *TRIFOLIUM REPENS* L.

White clover.

No. 870. Ankara University, Ankara. Oct. 8.

204931. *TRIFOLIUM* sp.

No. 754. Samsun. Sept. 29.

204932. *TRIFOLIUM RESUPINATUM* L.

Persian clover.

No. 756. Samsun. Sept. 29.

204933. *TRIFOLIUM PRATENSE* L.

Red clover.

No. 1167. Istanbul. Oct. 24. Perennial.

204934. *VICIA SATIVA* L. Fabaceae.

Common vetch.

No. 530. Kop Mountain, Gumusane. Sept. 12.

204935. *VICIA* sp.

No. 529. Kop Mountain, Gumusane. Sept. 12.

**204936 to 204948. AGAVE spp. Amaryllidaceae.**

From California. Plants growing at the Huntington Botanical Gardens, San Marino. Numbered Jan. 25, 1953.

Collected in Mexico by H. S. Gentry, in September and October 1952.

**204936. AGAVE FEROX C. Koch.**

No. 12137. Tejupan, Oaxaca.

**204937. AGAVE SISALANA Perrine.**

No. 12224. Rancho Piedra Parada, near Coocoantla, Chiapas.

**204938. AGAVE sp.**

No. 12248. Presented by Wilbur Barker of Tehuantepec, Oaxaca.

**204939. AGAVE sp.**

No. 12260. Tlacolula, Oaxaca.

**204940. AGAVE sp.**

No. 12261. Tlacolula, Oaxaca.

**204941. AGAVE sp.**

No. 12275. Near Km. 215-210 Laredo-Mexican highway, Hidalgo.

**204942. AGAVE sp.**

No. 12276. Tamazunchale, San Luis Potosí.

**204943. AGAVE sp.**

No. 12277. Tamazunchale, San Luis Potosí.

**204944. AGAVE sp.**

No. 12319. Fifteen miles north of Zamora, Michoacán.

**204945. AGAVE sp.**

No. 12320. Emiliano Zapata, Michoacán.

**204946. AGAVE sp.**

No. 12321. Tototlán, Jalisco.

**204947. AGAVE sp.**

No. 12322. Guadalajara, Jalisco.

**204948. AGAVE TEQUILANA Web.**

No. 12323. Tequila, Jalisco.

**204949. PRUNUS AVIUM L. Amygdalaceae.**

**Sweet cherry.**

From Virginia. Scions presented by Mrs. Charles Peeler, Middletown. Received Jan. 23, 1953.

**204950. RUBUS sp. Rosaceae.**

From Maryland. Plants growing at the United States Plant Introduction Garden, Glenn Dale. Numbered January 1953.

Originally from the Escuela Agricultura, Tegucigalpa, Honduras.

**204951. HAEMANTHUS sp. Amaryllidaceae.**

From the Union of South Africa. Bulbs collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Jan. 26, 1953.

No. 1510. Near Mount Fletcher, Cape Province. Jan. 3, 1953.

**204952. DIGITALIS LANATA Ehrh. Scrophulariaceae.**

From Austria. Seeds presented by the Heilmittelwerke Wien, Rennweg. Received Jan. 23, 1953.

**204953. SCORZONERA HISPANICA L. Asteraceae.**

From Belgium. Seeds presented by the Antwerp Botanic Garden, Antwerp.  
Received Jan. 26, 1953.

**204954 to 204964.**

From Guatemala. Collected by H. S. Gentry, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md.  
Received Jan. 26, 1953.

Collected Jan. 16 to 18, 1953.

**204954. AGAVE sp. Amaryllidaceae.**

No. 12452. Near El Rancho, Department of El Progreso. (Plants and leaves.)

**204955. AGAVE sp.**

No. 12443. Along road to Zacapa. (Plants.)

**204956. AGAVE sp.**

No. 12444. Along road to Zacapa. (Plants.)

**204957. AGAVE sp.**

No. 12447. Between Zacapa and Chiquimula. (Plants.)

**204958. AGAVE NIVEA Trel.**

No. 12451. Near Teculutlan. (Plants.)

**204959. DIOSCOREA MACROSTACHYA Benth. Dioscoreaceae.**

No. 12445. Road from Guatemala to Zacapa. (Seeds and tubers.)

**204960. DIOSCOREA sp.**

No. 12446. Along road to Zacapa. (Seeds and tubers.)

**204961. FURCRAEA sp. Amaryllidaceae.**

No. 12453. Along road to Progreso. (Plants.)

**204962 to 204964. PHASEOLUS VULGARIS L. Fabaceae.**

Common bean.

Market, Zacapa.

204962. No. 12448.

204963. No. 12449.

204964. No. 12450.

**204965 to 204968. PRUNUS PERSICA (L.) Batsch. Amygdalaceae. Peach.**

From California. Trees growing at the United States Plant Introduction Garden, Chico. Numbered Jan. 27, 1953.

204965. Selection (O-A-51) from PI 116638.

204966. Selection (J-1-138) from PI 116638.

204967. Selection (J-4-145) from PI 127323.

204968. Selection (E-14-13) from PI 119843.

**204969 and 204970. COFFEA spp. Rubiaceae.**

Coffee.

From the Belgian Congo. Seeds presented by the Station Experimentale de Mulungu-Tshibinda, Kivu. Received Jan. 27, 1953.

204969. COFFEA CONGENSIS Froehn.

204970. COFFEA KIVUENSIS Lebrun.

**204971. QUERCUS GILVA Blume. Fagaceae.**

From Japan. Seeds presented by the Shikoku Experiment Station, Zentsuji, Kagawa, Shikoku. Received Jan. 27, 1953.



204972 to 205034. LYCOPERSICON ESCULENTUM Mill. Solanaceae.  
**Tomato.**

From West Virginia. Seeds planted by M. E. Gallegley, Agricultural Experiment Station, Morgantown. Received Feb. 6, 1947.

Numbered in January 1953.

204972. 19.	205004. 714.
204973. 29-1.	205005. 715.
204974. 29-2.	205006. 717.
204975. 31.	205007. 721.
204976. 36.	205008. 731-1.
204977. 37.	205009. 775-1.
204978. 45.	205010. 775-2.
204979. 47-8.	205011. 795-1.
204980. 106.	205012. 795-2.
204981. 126-1.	205013. 809-1.
204982. 126-2.	205014. 809-3.
204983. 159-1.	205015. 819-1.
204984. 162-1.	205016. 819-2.
204985. 162-2.	205017. 828-1.
204986. 162-3.	205018. 828-2.
204987. 171-1.	205019. 846-1.
204988. 171-2.	205020. 846-2.
204989. 172-1.	205021. 878.
204990. 452-2.	205022. 880.
204991. 457-4.	205023. 882.
204992. 502-1.	205024. 885.
204993. 502-2.	205025. 886-1.
204994. 603-1.	205026. 887-1.
204995. 603-2.	205027. 888-1.
204996. 700.	205028. 889-1.
204997. 701.	205029. 889-2.
204998. 702.	205030. 890-1.
204999. 703.	205031. 891-1.
205000. 705.	205032. 891-2.
205001. 707.	205033. 891-3.
205002. 711.	205034. 893-1.
205003. 712-1.	

205035 to 205046. LYCOPERSICON ESCULENTUM Mill. Solanaceae.  
**Tomato.**

From Iowa. Plants growing at the Regional Plant Introduction Station, Ames. Numbered Jan. 28, 1953.

Seeds presented by Dr. E. F. Paddock, Agricultural Experiment Station, Wooster, Ohio.

205035. <i>McCollum</i> .	205037. <i>Lindstrom</i> ; 2074-3-M.
205036. <i>P. A. Young</i> . 661E-16 Bull.	205038. <i>Lindstrom</i> ; 2217-1-2.

**205035 to 205046—Continued**205039. *T. M. Currence; Fs-5-12.*205043. *P. A. Young. G1075-5-1.*205040. *Yellow Peach. Fs-3.*205044. *P. A. Young. T10776-5.*205041. *P. A. Young. T162 Fs-1.*205045. *P. A. Young. G1078-5  
from MacArthur 42M.*205042. *P. A. Young. T667-1.*205046. *P. A. Young. G1279-10.***205047. PRUNUS DOMESTICA L. Amygdalaceae. Common plum.**

From Maryland. Trees growing at the United States Plant Introduction Garden, Glenn Dale. Numbered Jan. 28, 1953.

A red-skinned, yellow-fleshed aromatic plum, received March 5, 1951 from Eric E. Montgomery, Fort Worth, Texas.

**205048 and 205049. MALUS SYLVESTRIS Mill. Malaceae. Apple.**

From England. Trees presented by the East Malling Research Station, Maidstone, Kent. Received Jan. 21, 1953.

205048. *Lord Lambourne; on M. XVI Tree 442.*205049. *Lord Lambourne; on M. XVI Tree 470.***205050 and 205051. PENNISETUM PURPUREUM Schumach.**

Poaceae.

Napier grass.

From Nyasaland. Cuttings presented by the Agricultural Research Station, Lilongwe. Received Jan. 28, 1953.

205050. From the Cameroons.

205051. From the Gold Coast.

**205052 to 205059.**

From the Union of South Africa. Stolons collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Jan. 28, 1953.

Collected Jan. 13 to 15, 1953 from Kruger National Park, between Pretorius Kop and Skukuza, Transvaal.

205052. *BRACHIARIA* sp. Poaceae.

No. 1635.

205053. *BRACHIARIA* sp.

No. 1636.

205054. *BRACHIARIA* sp.

No. 1648.

205055. *DIGITARIA* sp. Poaceae.

No. 1634.

205056. *DIGITARIA* sp.

No. 1646.

205057. *DIGITARIA* sp.

No. 1691.

205058. *HEMARTHRIA ALTISSIMA* (Poir.) Stapf & Hubb. Poaceae.

No. 1653.

205059. *PANICUM* sp. Poaceae.

No. 1664.

**205060 and 205061. QUERCUS spp. Fagaceae.**

From Greece. Seeds presented by the University of Thessalonike, Laboratory of Silviculture, Thessalonike. Received Jan. 29, 1953.

205060. *QUERCUS FARNETTO* Tenore.

205061. *QUERCUS ROBUR* L.

English oak.

**205062 and 205063. TRIFOLIUM REPENS L. Fabaceae.**

White clover.

From Iowa. Plants growing at the Plant Introduction Station, Ames. Numbered Feb. 2, 1953.

Originally collected by J. R. Harlan in Turkey, in 1948.

205062. From Tifi, Unye, Ordu. (With P. I. 171870.)

205063. From Moden, Bayburt, Gumusane. (With P. I. 172476.)

**205064 to 205082.**

From Peru. Seeds presented by A. F. Swanson, Agricultural Advisor, Office of Foreign Agricultural Relations, United States Department of Agriculture, Washington, D. C. Received Feb. 2, 1953.

205064. *GOSSYPIMUM*. Malvaceae.

Cotton.

LM. W 12-40. From the La Molina Station, La Molina.

205065 to 205082. *TRITICUM AESTIVUM* L. Poaceae.

Common wheat.

From Lima.

205065. Y (E-T).

205074. (Mt-K) S.

205066. (A-K) (M-S) Kt.

205075. K-C.

205067. G<sup>b</sup> (ME<sup>2</sup>-S).

205076. C-K.

205068. ME<sup>2</sup>-N No. 1.

205077. E-K.

205069. ME<sup>2</sup>-N No. 2.

205078. K-S. No. 1.

205070. (E-T) My.

205079. S-K<sup>2</sup>.

205071. (Md-ME) (E-T) No. 1.

205080. K-S. No. 2.

205072. (Md-ME) (E-T) No. 2.

205081. Yaqui 50.

205073. My-K.

205082. Kentana 52A.

**205083 to 205092. GLYCINE MAX (L.) Merrill. Fabaceae.**

Soybean.

From Israel. Seeds presented by the Ministry of Agriculture and Development, Agricultural Research Station, Rehovoth. Received Feb. 2, 1953.

205083. *Akasaya*.

205088. *Norin-I-go*.

205084. *Ginshiro*.

205089. *Norin-II-go*.

205085. *I-Higo-Wase*.

205090. *Sango-Waso*.

205086. *Kumusume-Sai-I-go*.

205091. *Shiro-Daizu*.

205087. *Narato-Hadaka*.

205092. *Shirohana-Sai-I-go*.

**205093 to 205101.**

From the Union of South Africa. Collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Feb. 3, 1953.

Collected in 1953; material was bulbs unless otherwise stated.

205093. *ANOIGANTHUS BREVIFLORUS* (Harv.) Baker. Amaryllidaceae.

No. 1493. Near Pietermaritzburg, Natal. (Plants.)

## 205093 to 205101—Continued

205094. CRINUM sp. Amaryllidaceae.

No. 1663. Kruger National Park, vicinity of Pretorius Kop, Transvaal.

205095. CRINUM sp.

No. 1686. At Crocodile River, outside Kruger National Park, Transvaal.

205096. DIPCADI GLAUCUM Baker. Liliaceae.

No. 1732a. Between Punda Maria and Pafuri, Kruger National Park.

205097. HAEMANTHUS AMARYLLOIDES Jacq. Amaryllidaceae.

No. 1556. Twenty miles southwest of Brandfort, Orange Free State.

205098. HAEMANTHUS sp.

No. 1653. Kruger National Park, vicinity of Pretorius Kop, Transvaal.

205099. RAPHIONACME DIVARICATA Harv. Asclepiadaceae.

No. 1492. Near Pietermaritzburg, Natal.

205100. URGINEA sp. Liliaceae.

No. 1701. Below Skukuza, Kruger National Park, Transvaal.

205101. URGINEA sp.

No. 1723. Between Punda Maria and Pafuri, Kruger National Park, Transvaal.

205102. ZEA MAYS L. Poaceae.

Corn.

From Japan. Seeds presented by the Shikoku Experiment Station, Zentsuji, Kagawa. Received Feb. 3, 1953.

11 × 13w × TD-3.

205103 to 205123. COFFEA ARABICA L. Rubiaceae.

Arabian coffea.

From Kenya. Seeds presented by the Coffee Research Station, Department of Agriculture, Ruiru. Received Feb. 4, 1953.

205103. *Amfillo*.205114. *S. L. 9*.205104. *Dalle (Melville)*.205115. *S. L. 10*.205105. *Dalle Mixed (Green)*.205116. *S. L. 14*.205106. *Dilla (Melville)*.205117. *S. L. 17*.205107. *Dilla and Alghe*.205118. *S. L. 28*.205108. *Gimma Galla Sidamo*.205119. *S. L. 30*.205109. *Gimma Mbuni*.205120. *S. L. 34*.205110. *Harar*.205121. *Series L*.205111. *K 7*.

205122. Tight growth.

205112. *Kents*.

205123. Vertical branches.

205113. *Rume Sudan*.

## 205124 to 205141.

From India. Seeds presented by the Indian Agricultural Research Institute, New Delhi. Received Feb. 4, 1953.

205124. CAJANUS CAJAN (L.) Druce. Fabaceae.

Pigeonpea.

Redgram No. 37.

205125. CICER ARIETINUM L. Fabaceae.

Chickpea.

Gengalgram No. 482.



## 205124 to 205141—Continued

205126. *DOLICHOS BIFLORUS* L. Fabaceae.

Horsegram D. B. 7.

205127 to 205129. *DOLICHOS LABLAB* L.

Hyacinth-bean.

205127. Fieldbean D. L. 173.

205128. Fieldbean D. L. 231.

205129. Fieldbean D. L. 1458.

205130. *ELEUSINE CORACANA* (L.) Gaertn. Poaceae.

Ragi.

Ragi No. 1.

205131 to 205136. *ORYZA SATIVA* L. Poaceae.

Rice.

205131. G. F. B. 24.

205134. MTU 15.

205132. MTU 3.

205135. SLO 13.

205133. MTU 10.

205136. S. R. 26B.

205137. *PHASEOLUS AUREUS* Roxb. Fabaceae.

Mung bean.

Greengram No. 62.

205138. *PHASEOLUS MUNGO* L.

Urd.

Blackgram No. 212.

205139 and 205140. *VIGNA CYLINDRICA* (L.) Skeels. Fabaceae.

205139. No. 57.

205140. C 422.

205141. *VIGNA SINENSIS* (Torner) Savi.

Cowpea.

## 205142 to 205157.

From Guatemala. Plants collected by H. S. Gentry, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Feb. 4, 1953.

Collected in 1953.

205142. *AGAVE* sp. Amaryllidaceae.

No. 12462. Finca Chapultepec, Departamento de Alta Verapaz. Jan. 23.

205143. *AGAVE* sp.

No. 12474. Five miles west of El Estor, Departamento de Izabal. Jan. 27.

205144. *DIOSCOREA BARTLETTII* Morton. Dioscoreaceae.

No. 12457. Eleven miles southwest of Finca Sebol, Departamento de Cobán. Jan. 22.

205145 to 205147. *DIOSCOREA COMPOSITA* Hemsl.

205145. No. 12461. Six miles southwest of Finca Sebol, Departamento de Cobán. Jan. 23.

205146. No. 12475. Five miles along road to Sinahu from Rosaica, Departamento de Cobán. Jan. 28.

205147. No. 12456. Twelve miles southeast of Finca Sebol, Departamento de Cobán.

205148. *DIOSCOREA* sp.

No. 12458. Finca Sebol, Departamento de Cobán. Jan. 23.

## 205142 to 205157—Continued

205149. *DIOSCOREA* sp.

No. 12459. Six miles southwest of Finca Sebol, Departamento de Cobán. Jan. 23.

205150. *DIOSCOREA* sp.

No. 12460. Six miles southwest of Finca Sebol, Departamento de Cobán. Jan. 23.

205151. *DIOSCOREA* sp.

No. 12468. Pansos, Departamento de Alta Verapaz. Jan. 27.

205152. *DIOSCOREA* sp.

No. 12469. Pansos, Departamento de Alta Verapaz. Jan. 27.

205153. *DIOSCOREA* sp.

No. 12472. Ten miles east of Pansos, Departamento de Alta Verapaz. Jan. 27.

205154. *DIOSCOREA* sp.

No. 12473. Five miles west of El Estor, Departamento de Izabal. Jan. 27.

205155. *DIOSCOREA* sp.

No. 12476. Six miles west of Pansos, Departamento de Alta Verapaz. Jan. 28.

205156. *DIOSCOREA* sp.

No. 12477. Six miles west of Pansos, Departamento de Alta Verapaz. Jan. 28.

205157. *DIOSCOREA* sp.

No. 12479. Eighteen miles west of Pansos, Departamento de Alta Verapaz. Jan. 28.

205158. *VICIA VILLOSA* Roth. Fabaceae.

Hairy vetch.

From France. Seeds presented by the Station Regionale d'Agronomie, Avignon. Received Feb. 4, 1953.

*Vesce de Cerdagne.*

205159 and 205160. *HIBISCUS CANNABINUS* L. Malvaceae. Kenaf.

From Taiwan. Seeds presented by Y. E. Ku, Taiwan University, Taipeh. Received Feb. 5, 1953.

205159. *Madras Red.*

205160. *Nadiad Red.*

## 205161 to 205241.

From Turkey. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Feb. 5, 1953.

Collected in 1952.

205161. *ABELMOSCHUS ESCULENTUS* (L.) Moench. Malvaceae.

Okra.

No. 1104. Bazaar, Izmir. Oct. 20.

205162. *ALLIUM CEPA* L. Liliaceae.

Onion.

No. 1114. *Giant Yellow.* Bazaar, Izmir. Oct. 12.

205163. *ALLIUM* sp.

No. 638. Near Susuz, Kars. Sept. 19.

## 205161 to 205241—Continued

205164. *ALLIUM* sp.

No. 975. Near Antalya. Oct. 12.

205165. *ALLIUM* sp.

No. 1067. Near Karacali, Mugla. Oct. 16.

205166. *ALLIUM* sp.

No. 1178. On Heybali Ada Island, Istanbul. Oct. 26.

205167 to 205178. *CAPSICUM FRUTESCENS* L. Solanaceae.

Redpepper.

205167. No. 433. Bazaar, Malatya. Sept. 7. Hot.

205168. No. 1025. Bazaar, Antalya. Oct. 14. Sweet.

205169. No. 1026. Bazaar, Antalya. Oct. 14. Hot.

205170. No. 1053. Kemer, Mugla. Oct. 15.

205171. No. 1082. Dalaman State Farm, Mugla. Oct. 17. Hot.

205172. No. 1086. Bazaar, Mugla. Oct. 17. Sweet.

205173 to 205176. Bazaar, Izmir. Oct. 20.

205173. No. 1103. Sweet.

205175. No. 1108. Red, sweet.

205174. No. 1106. Hot.

205176. No. 1110. Long, sweet.

205177. No. 1136. Bornova Agriculture School, Izmir. Oct. 21. Sweet.

205178. No. 1137. Bornova Agriculture School, Izmir. Oct. 21.

205179. *CARTHAMUS TINCTORIUS* L. Asteraceae.

Safflower.

No. 1193. Ankara University, Ankara. Oct. 31.

205180. *CERATONIA SILIQUA* L. Fabaceae.

Carob.

No. 978. Antalya. Oct. 12.

205181. *CUCUMIS SATIVUS* L. Cucurbitaceae.

Cucumber.

No. 1107. Bazaar, Izmir. Oct. 20.

205182 to 205194. *DACTYLIS GLOMERATA* L. Poaceae.

Orchard grass.

205182. No. 589. Near Horum, Erzurum. Sept. 17.

205183. No. 628. Near Mezraa, Kars. Sept. 19.

205184. No. 636. Near Susuz, Kars. Sept. 19.

205185. No. 958. Siran, Afyon. Oct. 11.

205186. No. 1024. Virren, Antalya. Oct. 14.

205187. No. 1051. North of Burhaniye, Mugla. Oct. 15.

205188. No. 1084. North of Mugla. Oct. 17.

205189. No. 1091a. Near Aydin. Oct. 19.

205190. No. 1124. Bornova, Izmir. Oct. 21.

205191. No. 1148. Karacambey Hara, Bursa. Oct. 23.

205192. No. 1157. Istanbul. Oct. 24.

205193. No. 1160. Istanbul University of Forestry, Istanbul. Oct. 24.

205194. No. 1173. Heybali Ada Island, Istanbul. Oct. 26.

205195. *HORDEUM BULBOSUM* L. Poaceae.

Grass.

No. 1090. Aydin. Oct. 19.

205196. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae.

Tomato.

No. 1102. Bazaar, Izmir. Oct. 20.

## 205161 to 205241—Continued

205197. *MELILOTUS OFFICINALIS* (L.) Lam. Fabaceae. Yellow sweetclover.  
No. 919. Eskisehir. Oct. 9.
- 205198 and 205199. *MEDICAGO SATIVA* L. Fabaceae. Alfalfa.  
205198. No. 920. Eskisehir. Oct. 9.  
205199. No. 1000. State Animal Breeding Station, Antalya. Oct. 13.
- 205200 to 205202. *ONOBRYCHIS VICIAEFOLIA* Scop. Fabaceae. Sainfoin.  
205200. No. 914. Eskisehir. Oct. 9.  
205201. No. 999. Antalya. Oct. 13.  
205202. No. 1001. Antalya. Oct. 13.
- 205203 to 205213. *PHASEOLUS VULGARIS* L. Fabaceae. Common bean.  
205203. No. 1117. Bazaar, Izmir. Oct. 20. Bush type.  
205204. No. 1118. Bazaar, Izmir. Oct. 20. Climber.  
205205. No. 1120. Bazaar, Izmir. Oct. 20. Climber.  
205206 to 205213. Samsun. Oct. 31.  
205206. No. 1179. 205210. No. 1183.  
205207. No. 1180. 205211. No. 1184.  
205208. No. 1181. 205212. No. 1185.  
205209. No. 1182. 205213. No. 1186.
- 205214 to 205216. *PISUM SATIVUM* L. Fabaceae. Pea.  
Bazaar, Izmir. Oct. 20.  
205214. No. 1112.  
205215. No. 1113.  
205216. No. 1109.
205217. *PYRUS* sp. Malaceae.  
No. 1078. Mugla. Oct. 17. A wild pear.
205218. *ROSA SULPHUREA* Ait. Rosaceae. Rose.  
No. 900. Near Ankara. Oct. 9. Handsome pure-yellow flowers.
205219. *RUBUS* sp. Rosaceae.  
No. 803. Camkora Forest, Ankara. Oct. 5. Four inches high.
205220. *RUBUS* sp.  
No. 806. Camkora Forest, Ankara. Oct. 5. Four inches high.
205221. *SECALE CEREALE* L. Poaceae. Rye.  
No. 1192. Ankara. Oct. 31.
205222. *SECALE MONTANUM* Guss.  
No. 916. Eskisehir. Oct. 9.  
5223. *SECALE* sp.  
No. 609. Near Karaargan, Kars. Sept. 17.
- 205224 to 205229. *SESAMUM INDICUM* L. Pedaliaceae. Sesame.  
205224. No. 1052. Kemer, Mugla. Oct. 15.  
205225. No. 998. Antalya. Oct. 13.  
205226. No. 1002. Selimiye, Antalya. Oct. 13.  
205227. No. 1004. Oct. 13.  
205228. No. 1080. Dalaman State Farm, Mugla. Oct. 17.  
205229. No. 1134. Bornova Agriculture School, Izmir. Oct. 21.



## 205161 to 205241—Continued

205230. *SORGHUM VULGARE* Pers. Poaceae.

No. 954. Afyon. Oct. 11.

205231 to 205235. *SPINACIA OLERACEA* L. Chenopodiaceae.

Spinach.

205231. No. 1087. Bazaar, Mugla. Oct. 17.

205232. No. 1105. Bazaar, Izmir. Oct. 20.

205233. No. 1111. Bazaar, Izmir. Oct. 20.

205234. No. 928. Eskisehir. Oct. 10.

205235. No. 742. Bazaar, Giresun. Sept. 26.

205236. *STYRAX OFFICINALIS* L. Styracaceae.

Storax.

No. 1015. Selimiye, Antalya. Oct. 13.

205237. *TRIFOLIUM ALEXANDRINUM* L. Fabaceae.

Berseem.

No. 995. State Experiment Farm, Antalya. Oct. 12. Annual.

205238. *TRIFOLIUM RESUPINATUM* L.

Persian clover.

No. 997. State Experiment Farm, Antalya. Oct. 13. Perennial.

205239. *VICIA SATIVA* L. Fabaceae.

Common vetch.

No. 1115. Bazaar, Izmir. October.

205240 and 205241. *VIGNA SINENSIS* (Torner) Savi. Fabaceae.

Cowpea.

205240. No. 1088. Bazaar, Mugla. Oct. 17.

205241. No. 1116. Bazaar, Izmir. Oct. 20.

205242 to 205244. *STIZOLOBIUM* spp. Fabaceae.

From Northern Rhodesia. Seeds presented by the Chief Secretary's Office, Lusaka. Received Feb. 6, 1953.

205242. *STIZOLOBIUM CINEREUM* Piper & Tracy.205243. *STIZOLOBIUM VELUTINUM* (Hassk.) Piper & Tracy.205244. *STIZOLOBIUM* sp.

## 205245 to 205248.

From the Union of South Africa. Roots and bulbs collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Feb. 6, 1953.

205245. *LANTANA INDICA* Roxb. Verbenaceae.

No. 1773. Moist areas along Delmas Road, near Pretoria, Transvaal. Jan. 28, 1953. (Roots.)

205246. *CRINUM* sp. Amaryllidaceae.

No. 1647. Near Skukuza, Kruger National Park, Transvaal. Jan. 13, 1953. (Bulbs.)

205247. *CRINUM* sp.

No. 1663. Vicinity of Pretorius Kop, Kruger National Park, Transvaal. Jan. 15, 1953. (Bulbs.)

205248. *ORNITHOGALUM* sp. Liliaceae.

No. 1700. Fourteen miles below Skukuza, Kruger National Park, Transvaal. Jan. 17, 1953. (Bulbs.)

205249 to 205251. *CHLORIS GAYANA* Kunth. Poaceae.

**Rhodes grass.**

From central Africa. Seeds presented by the Agricultural Research Station, Lilongwe, Nyasaland. Received Feb. 6, 1953.

205249. *Emamyaleni*. From Nyasaland.

205250. *Mpwapwa*. From Tanganyika.

205251. *Teso*. From Uganda.

205252. *FRAGARIA*. Rosaceae.

**Strawberry.**

From the Netherlands. Plants presented by the Instituut voor de Veredeling van Tuinbouwgewassen, Wageningen. Received Feb. 6, 1953.

*Scarlet* 7 36.

205253 and 205254.

From Kenya. Seeds presented by the Coffee Research Station, Department of Agriculture, Ruiru. Received Feb. 9, 1953.

205253. *PENNISETUM PURPUREUM* Schumach. Poaceae. **Napier grass.**

205254. *VIGNA SESQUIPEDALIS* (L.) Fruwirth. Fabaceae. **Asparagus-bean.**

205255 to 205267. *POA PRATENSIS* L. Poaceae.

**Kentucky bluegrass.**

From Germany. Seeds presented by Dr. Hildegard Juhl, Botanisches Institut, Kiel. Received Feb. 9, 1953.

205255. No. 123. *Angustifolia*. Fehmarnsund.

205256. No. 229. *Angustifolia*. Rusterbergen.

205257. No. 230. *Angustifolia*. Rusterbergen.

205258. No. 9. *Costata*. Bottsand.

205259. No. 211. *Costata-latifolia*. Schulp.

205260. No. 88. *Latifolia*. Sielbek.

205261. No. 34. *Subcoerulea*. Ratzeburg.

205262. No. 42. *Subcoerulea*. Ratzeburg.

205263. No. 43. *Subcoerulea*. Ratzeburg.

205264. No. 92. *Subcoerulea*. Ratzeburg.

205265. No. 195. *Subcoerulea*. Schulp.

205266. No. 114. *Subcoerulea-latifolia*. Rusterbergen.

205267. No. 115. *Subcoerulea-latifolia*. Rusterbergen.

205268. *PRITCHARDIA AFFINIS* Becc. Phoenicaceae.

**Palm.**

From Florida. Plant growing at the United States Plant Introduction Garden, Coconut Grove. Numbered Feb. 9, 1953.

Plant presented in 1942 by Col. R. H. Montgomery, Coconut Grove, Fla.

205269. *DACTYLIS GLOMERATA* L. Poaceae.

**Orchard grass.**

From Denmark. Seeds presented by K. L. Sehm, Dansk Frokultur, Kerteminde. Received Feb. 9, 1953.

*Adefa Leafy.*

205270 to 205276.

From Japan. Seeds presented by A. Moriya, Laboratory of Plant Breeding, Utsunomiya University. Received Feb. 9, 1953.

205270. *AGROPYRON SEMICOSTATUM* Nees. Poaceae.

## 205270 to 205276—Continued

205271. *ANDROPOGON BREVIFOLIUS* Swartz. Poaceae.

205272. *CALAMAGROSTIS ARUNDINACEA* var. *SCIUROIDES* (Franch. & Sav.) Hack. Poaceae.

205273. *DIMERIA ORNITHOPODA* Trin. Poaceae.

205274. *PASPALUM THUNBERGII* Kunth. Poaceae.

205275. *SPODIOPOGON COTULIFER* (Thunb.) Hack. Poaceae.

205276. *SPODIOPOGON SIBIRICUS* Trin.

## 205277 to 205326.

From Turkey. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Feb. 10, 1953.

Collected in 1952.

205277. *AEGILOPS* sp. Poaceae.

No. 98. One hundred and ten km. southeast of Ankara along Route 60. Aug. 28.

205278. *LOLIUM PERENNE* L. Poaceae.

Perennial ryegrass.

No. 59. Forty km. southeast of Ankara along Route 60. Aug. 28.

205279. *AGROPYRON ELONGATUM* (Host.) Beauv. Poaceae.

Grass.

No. 73. Fifty-three km. southeast of Ankara along Route 60. Aug. 28.

205280. *ALOPECURUS ARUNDINACEUS* Poir. Poaceae.

No. 162. Near Malya, Kirsehir. Aug. 30.

205281. *ASPHODELINE* sp. Liliaceae.

No. 379. Near Uluguney, Sivas. Sept. 5.

205282. *ASTRAGALUS* sp. Fabaceae.

No. 637. Near Susuz, Kars. Sept. 19.

205283. *BRASSICA* sp. Brassicaceae.

No. 444. Bazaar, Malatya. Sept. 7.

205284. *BROMUS COMMUTATUS* Schrad. Poaceae.

No. 635. Near Mezraa, Kars. Sept. 19.

205285. *BROMUS* sp.

No. 640. Near Susuz, Kars. Sept. 19.

205286. *BROMUS* sp.

No. 642. Near Susuz, Kars. Sept. 19.

205287. *BROMUS* sp.

No. 990. Antalya. Oct. 12. Annual.

205288. *GLADIOLUS* sp. Iridaceae.

No. 259. Kerim Oglu Gardens, near Pinarbasi, Kayseri. Sept. 1.

205289. *LATHYRUS* sp. Fabaceae.

No. 600. Near Horum, Erzurum. Sept. 17.

205290 and 205291. *LEDIPIUM SATIVUM* L. Brassicaceae.

Garden cress.

205290. No. 192. Bazaar, Kayseri. Aug. 20.

205291. No. 446. Bazaar, Malatya. Sept. 7.

205292. *LOTUS CORNICULATUS* L.

Birdsfoot trefoil.

No. 223. Near Kayseri. Aug. 31.

## 205277 to 205326—Continued

205293. *MEDICAGO HISPIDA* Gaertn. Fabaceae. Burclover.  
No. 981. Antalya. Oct. 12.
205294. *MEDICAGO LUPULINA* L. Black medic.  
No. 250. Bunyan, between Kayseri and Pinarbasi. Sept. 1.
205295. *MEDICAGO ORBICULARIS* (L.) All. Buttonclover.  
No. 988. Antalya. Oct. 12.
205296. *MEDICAGO PAPILLOSA* Boiss.  
No. 591. Near Horum, Erzurum. Sept. 17.
205297. *MEDICAGO SATIVA* L. Alfalfa.  
No. 925. Eskisehir. Oct. 10.
205298. *MEDICAGO MINIMA* (L.) Grufberg.  
No. 989. Antalya. Oct. 12.
- 205299 and 205300. *MELILOTUS ALBA* Desr. Fabaceae. White sweetclover.  
205299. No. 220. Kayseri. Aug. 31.  
205300. No. 232. Eighty-two km. southwest of Kayseri. Aug. 31.
- 205301 and 205302. *MELILOTUS OFFICINALIS* (L.) Lam. Yellow sweetclover.  
205301. No. 227. Sixty-eight km. southwest of Kayseri. Aug. 31.  
205302. No. 625. Between Kars and Kagizman. Sept. 18.
205303. *ONOBRYCHIS VICIAEFOLIA* Scop. Fabaceae. Sainfoin.  
No. 252. Bunyan, between Kayseri and Pinarbasi. Sept. 1.
205304. *ONOBRYCHIS* sp.  
No. 991. Antalya. Oct. 12.
205305. *PHLEUM ARENARIUM* L. Poaceae.  
No. 76. Fifty-three km. southeast of Ankara along Route 60. Aug. 28.
205306. *RAPHANUS SATIVUS* L. Brassicaceae. Radish.  
No. 429. Bazaar, Malatya. Sept. 7.
205307. *RUBUS* sp. Rosaceae.  
No. 273. Kerim Oglu Gardens near Pinarbasi, Kayseri. Sept. 1.
205308. *SECALE* sp. Poaceae.  
No. 597. Near Horum, Erzurum. Sept. 17.
205309. *STIPA* sp. Poaceae.  
No. 592. Near Horum, Erzurum. Sept. 17.
- 205310 and 205311. *TRIFOLIUM HYBRIDUM* L. Fabaceae. Alsike clover.  
205310. No. 829. Aband Lake, Bolu. Oct. 6.  
205311. No. 617. Near Karaorgan, Kars. Sept. 17.
- 205312 to 205315. *TRIFOLIUM PRATENSE* L. Red clover.  
205312. No. 596. Near Horum, Erzurum. Sept. 17.  
205313. No. 642a. Near Susuz, Kars. Sept. 19.  
205314. No. 618. Near Karaorgan, Kars. Sept. 17.  
205315. No. 828. Aband Lake, Bolu. Oct. 6.
205316. *TRIFOLIUM RESUPINATUM* L. Persian clover.  
No. 680. Zigana Pass, between Torul and Macka. Sept. 21.



## 205277 to 205326—Continued

205317. *TRIFOLIUM LAPPACEUM* L.

Lappa clover.

No. 755. Near Samsun. Sept. 29. Annual.

205318. *TRIFOLIUM STRIATUM* L.

No. 774. Near Havza, Samsun. Sept. 29. Annual.

205319. *TRIFOLIUM* sp.

No. 802. Camkoru Forest, Ankara. Oct. 5.

205320. *TRIFOLIUM* sp.

No. 805. Camkoru Forest, Ankara. Oct. 5.

205321. *TRIFOLIUM RESUPINATUM* L.

Persian clover.

No. 953. Harasi Farm, Eskisehir. Oct. 10.

205322. *TRIFOLIUM CAMPESTRE* Schreb.

No. 976. Antalya. Oct. 12.

205323. *VICIA HYBRIDA* L. Fabaceae.

No. 332. Near Zara, Sivas. Sept. 4.

205324. *VICIA LUTEA* L.

No. 400. Sultan Suyu Harasi, Malatya. Sept. 7.

205325 and 205326. *VICIA SATIVA* L.

Common vetch.

205325. No. 57. Thirty-five km. southeast of Ankara, along Route 60. Aug. 28.

205326. No. 240. Bunyan, between Kayseri and Pinarbasi. Sept. 1.

205327 and 205328. *DIGITALIS* spp. Scrophulariaceae.

From Austria. Seeds presented by Dr. Kutiak &amp; Co., Arzneimittelfabrik, Vienna. Received Feb. 10, 1953.

205327. *DIGITALIS LANATA* Ehrh.205328. *DIGITALIS PURPUREA* L.205329. *MEDICAGO SATIVA* L. Fabaceae

Alfalfa.

From Peru. Seeds collected by A. F. Swanson, Foreign Agricultural Service, United States Department of Agriculture, Washington, D. C. Received Feb. 10, 1953.

Collected in Macate, Department of Ancash.

*Macate.*205330 and 205331. *RHODODENDRON* spp. Ericaceae.

From Japan. Seeds presented by M. Satomi, Setagaya-ku, Tokyo. Received Feb. 10, 1953.

205330. *RHODODENDRON RETICULATUM* D. Don.205331. *RHODODENDRON SIMSII* Planch.205332. *QUERCUS CHRYSOLEPIS* Liebm. Fagaceae.

Oak.

From California. Seeds presented by the Los Angeles State and County Arboretum, Arcadia. Received Feb. 11, 1953.

205333 to 205338.

From Tanganyika. Seeds presented by H. J. van Remsburg, Mpwapwa. Received Feb. 11, 1953.

205333. *BRACHIARIA BRIZANTHA* (Hochst.) Stapf. Poaceae.205334. *CHLORIS GAYANA* Kunth. Poaceae.

Rhodes grass.

## 205333 to 205338—Continued

205335. GLYCINE JAVANICA L. Fabaceae.

205336. LYCOPERSICON ESCULENTUM Mill. Solanaceae.

Tomato.

205337. PANICUM MAXIMUM Jacq. Poaceae.

Guinea grass.

205338. SETARIA SPHACELATA (Schum.) Stapf &amp; Hubb. Poaceae.

205339. MALUS SYLVESTRIS Mill. Malaceae.

Apple.

From Ireland. Scions presented by James O'Boyle, Ton-Roe, Killala. Received Feb. 11, 1953.

*Ross Non-Pareil.*

## 205340 to 205363.

From Mexico, Guatemala, and California. Seeds collected by H. S. Gentry, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Feb. 12, 1953.

Unless otherwise mentioned, material was collected in Baja California, Mexico.

205340. AGAVE AVELLANIDENS Trel. Amaryllidaceae.

No. 12407. Seven miles west of Calmalli. Dec. 7, 1952.

205341 to 205343. AGAVE CERULATA Trel.

205341. No. 12335. Laguna Seca Chapala. December 1952.

205342. No. 12336. Thirty miles north of Punta Prieta. November 1952.

205343. No. 12394. Calmalli. Dec. 6, 1952.

205344. AGAVE DESERTI Englm.

No. 12438. Pinyon Flats, Station Rosa Mountain, Calif. December 1952.

205345. AGAVE NELSONII Trel.

No. 12409. Three miles north of San Fernando. Dec. 8, 1952.

205346. AGAVE SOBRIA Brandeg.

No. 12384.

205347. AGAVE VEXANS Trel.

No. 12372. Thirteen miles west of Comondú. Nov. 28, 1952.

205348. AGAVE sp.

No. 12364. Eight miles north of Punta Frailes. Nov. 27, 1952.

205349. AGAVE sp.

No. 12384. Sierra Giganta range, 16 miles west of Loreta road to San Xavier. Dec. 2, 1952.

205350. AGAVE sp.

No. 12387. Rancho Salto, east side of Bahia Concepción. Dec. 3, 1952.

205351. AGAVE sp.

No. 12397. Five miles northwest of Rancho Mesquital. Dec. 6, 1952.

205352. AGAVE sp.

No. 12427. Huntington Botanical Gardens, San Marino, Calif. Dec. 23, 1952.

205353. AGAVE EXPANSA Jacobi.

No. 12442. Murrieta, Calif. Jan. 6, 1953.

## 205340 to 205363—Continued

205354. *FOUQUIERIA BURRAGEI* Rose. Fouquieriaceae.

No. 12386. South end of Bahia Concepción. Dec. 3, 1952.

205355. *GOSSYPIUM*. Malvaceae.

Cotton.

No. 12337. Near Carrisal, 30 miles southwest of La Paz. Nov. 20, 1952.

205356. *GOSSYPIUM* sp.

No. 12380. Ten miles north of Loreto on road to Camipoli. Dec. 1, 1952.

205357 to 205362. From Cobán, Alta Verapaz, Guatemala.

205357. *PHASEOLUS LUNATUS* L. Fabaceae.

Lima bean.

No. 12455. Market. Jan. 21, 1953.

205358 to 205362. *PHASEOLUS VULGARIS* L.

Common bean.

Jan. 25, 1953.

205358. No. 12463. Market. 205361. No. 12466. Market.

205359. No. 12464. Market. 205362. No. 12467. Market.

205360. No. 12465.

205363. *ZEA MAYS* L. Poaceae.

Corn.

No. 12480. Tucurú. Jan. 28, 1953.

205364 and 205365. *PIPER NIGRUM* L. Piperaceae. Black pepper.

From India. Cuttings presented by the Talitaramba Experiment Station, Bombay. Received Feb. 13, 1953.

205364. *Balamcetta*.205365. *Kallivalli*.

## 205366 to 205383.

From the Union of South Africa. Collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Feb. 13, 1953.

Material was bulbs unless otherwise stated.

205366. *ALBUCA* sp. Liliaceae.

No. 1802. Bottom of Waterloof, Pretoria, Transvaal. Feb. 4, 1953.

205367. *ANOIGANTHUS BREVIPLORUS* (Harv.) Baker. Amaryllidaceae.

No. 1803. Transvaal; originally from Natal. Feb. 4, 1953.

205368. *BOOPHONE DISTICHA* (L.f.) Herb. Amaryllidaceae.

No. 1414. Near Pretoria, Transvaal. Dec. 15, 1952.

205369. *BOOPHONE* sp.

No. 1407. Orange Free State. Dec. 12, 1952.

205370. *BOWIEA VOLUBILIS* Hook. f. Liliaceae.

No. 1410. Near Pretoria, Transvaal. Dec. 15, 1952.

205371. *DIGITARIA SWAZILANDENSIS* Stent. Poaceae.

No. 1805. Near Pretoria, Transvaal. Feb. 5, 1953. (Stolons.)

205372. *DIGITARIA* sp.

No. 1801. Bottom of Waterloof, Pretoria, Transvaal. Mar. 4, 1953. (Plants.)

205373. *HAEMANTHUS MAGNIFICUS* Herb. Amaryllidaceae.

No. 1782. Near Johannesburg, Transvaal. Jan. 31, 1953.

**205366 to 205383—Continued****205374. HAEMANTHUS MONTANUS** Baker.

No. 1783. South of Johannesburg, Transvaal. Jan. 31, 1953.

**205375. HAEMANTHUS NELSONII** Baker.

No. 1781. Near Johannesburg, Transvaal. Jan. 31, 1953. (Fruits.)

**205376. HAEMANTHUS** sp.

No. 1669. Vicinity of Pretorius Kop, Kruger National Park, Transvaal. Jan. 15, 1953.

**205377. HYPOXIS NITIDA** Verdoorn. Amaryllidaceae.

No. 1409. Orange Free State. Dec. 12, 1952. (Corms.)

**205378. NERINE FALCATA** Barker. Amaryllidaceae.

No. 1798. University Farm, Transvaal. Feb. 4, 1953. (Seeds.)

**205379. SCILLA RIGIDIFOLIA** Kunth. Liliaceae.

No. 1416. Near Pretoria, Transvaal. Dec. 15, 1952.

**205380. SCILLA SATURATA** Baker.

No. 1795. Near Pretoria, Transvaal. Feb. 3, 1953.

**205381. SCILLA** sp.

No. 1405. Orange Free State. Dec. 12, 1952.

**205382. SETARIA TENUISETA** DeWit. Poaceae.

No. 1804. Agricultural Research Station, near Pretoria, Transvaal. Feb. 5, 1953. (Plants.)

**205383. XYSMALOBIMUM UNDULATUM** (L.) R. Br. Asclepiadaceae.

No. 1800. Meadow in Pretoria, Transvaal. Feb. 4, 1953. (Roots.)

**205384. GLYCINE MAX** (L.) Merrill. Fabaceae. **Soybean.**

From Pakistan. Seeds presented by the American Embassy, Karachi. Received Feb. 16, 1953.

**205385 to 205407. SOLANUM TUBEROSUM** L. Solanaceae. **Potato.**

From Argentina. Seeds collected by Dr. Enrique H. Brucher, Tucumán. Received Feb. 16, 1953.

<b>205385. A.</b>	<b>205397. M.</b>
<b>205386. B.</b>	<b>205398. 2.</b>
<b>205387. C.</b>	<b>205399. 3.</b>
<b>205388. D.</b>	<b>205400. 4.</b>
<b>205389. E.</b>	<b>205401. 6.</b>
<b>205390. F.</b>	<b>205402. 8.</b>
<b>205391. G.</b>	<b>205403. 10.</b>
<b>205392. H.</b>	<b>205404. 13.</b>
<b>205393. I.</b>	<b>205405. 14.</b>
<b>205394. J.</b>	<b>205406. 15.</b>
<b>205395. K.</b>	<b>205407. 19.</b>
<b>205396. L.</b>	



**205408 to 205418. COFFEA ARABICA L. Rubiaceae. Arabian coffee.**

From Ethiopia. Seeds presented by Pierre G. Sylvain, Coffee Specialist,  
Food and Agriculture Organization of the United Nations, Addis Ababa.  
Received Feb. 16, 1953.

- |                               |                             |
|-------------------------------|-----------------------------|
| 205408. <i>Agaro.</i>         | 205414. <i>Gore.</i>        |
| 205409. <i>Arba Gougou.</i>   | 205415. <i>Harar.</i>       |
| 205410. <i>Aroussi.</i>       | 205416. <i>Jamma Tana.</i>  |
| 205411. <i>Cioiccie.</i>      | 205417. <i>Mattu.</i>       |
| 205412. <i>Ennarea.</i>       | 205418. <i>Tafari Kela.</i> |
| 205413. <i>Eritrean Moca.</i> |                             |

**205419 to 205439.**

From Turkey. Seeds collected by Vecdet Erkun, Turkish Ministry of Agriculture, Ankara. Received Feb. 16, 1953.

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|--|----------------|
| 205419. ANTHOLYZA sp. Iridaceae.                     |                |
| 205420. ASTRAGALUS sp. Fabaceae.                     |                |
| No. 4.   |                |
| 205421. ASTRAGALUS sp.                               |                |
| No. 5.   |                |
| 205422. ASTRAGALUS sp.                               |                |
| No. 15.  |                |
| 205423. ASTRAGALUS sp.                               |                |
| No. 23.  |                |
| 205424. BROMUS sp. Poaceae.                          |                |
| No. 8.   |                |
| 205425. BROMUS sp.                                   |                |
| No. 11.  |                |
| 205426. DACTYLIS GLOMERATA L. Poaceae.               | Orchard grass. |
| No. 10.  |                |
| 205427 to 205429. MEDICAGO HISPIDA Gaertn. Fabaceae. | Burclover.     |
| 205427. No. 12.                                      |                |
| 205428. No. 20.                                      |                |
| 205429. No. 18.                                      |                |
| 205430. MEDICAGO MINIMA (L.) Grufberg.               |                |
| 205431. MEDICAGO SATIVA L.                           | Alfalfa.       |
| No. 1.   |                |
| 205432 and 205433. PHLEUM ARENARIUM L. Poaceae.      |                |
| 205432. No. 9.                                       |                |
| 205433. No. 17.                                      |                |
| 205434. POA sp. Poaceae.                             |                |
| No. 2.   |                |
| 205435. POA sp.                                      |                |
| 205436. SOPHORA ALOPECUROIDES L. Fabaceae.           |                |
| No. 25.  |                |

**205419 to 205439—Continued**

205437. *TRIFOLIUM HYBRIDUM* L. Fabaceae. Alsike clover.

No. 22.

205438 and 205439. *TRIFOLIUM PRATENSE* L. Red clover.

205438. No. 7.

205439. No. 16.

**205440 to 205443.**

From India. Seeds presented by the Division of Botany, Indian Agricultural Research Institute, New Delhi. Received Feb. 16, 1953.

205440. *DICHROA FEBRIFUGA* Lour. Hydrangeaceae.

205441. *POTENTILLA NORVEGICA* L. Rosaceae.

205442. *SESAMUM INDICUM* L. Pedaliaceae. Sesame.

205443. *SESAMUM PROSTRATUM* Retz.

**205444 to 205446.**

From Japan. Seeds presented by K. Murakami, Hokkaido Agriculture Experiment Station, Tsukisappu, Hokkaido. Received Feb. 16, 1953.

205444. *DACTYLIS GLOMERATA* L. Poaceae. Orchard grass.

205445. *PHLEUM PRATENSE* L. Poaceae. Timothy.

205446. *TRIFOLIUM PRATENSE* L. Fabaceae. Red clover.

**205447 and 205448.**

From the Union of South Africa. Bulbs collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Feb. 16, 1953.

205447. *SCILLA* sp. Liliaceae.

No. 1411. Near Pretoria, Transvaal. Dec. 15, 1952.

205448. *URGINEA BURKEI* Baker. Liliaceae.

No. 1415. Pretoria North, Transvaal. Dec. 15, 1952.

**205449. COFFEA ARABICA** L. Rubiaceae. Arabian coffee.

From Angola. Seeds presented by the Junta de Exportação Do Cafe Colonial, Luanda. Received Feb. 17, 1953.

$387 \times Arabica$ .

**205450. NERINE KRIGEI** Barker. Amaryllidaceae.

From the Union of South Africa. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Feb. 18, 1953.

No. 1818. East of Kinross, Transvaal. Feb. 7, 1953.

**205451 to 205453. QUERCUS** spp. Fagaceae. Oak.

From Mexico. Seeds collected by H. S. Gentry, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Feb. 18, 1953.

From Baja California.

205451. *QUERCUS* sp.

No. 12354. Western summit of Sierra Laguna. Nov. 25, 1952. A black oak.

**205451 to 205453—Continued**205452. *QUERCUS* sp.

No. 12355. Western summit of Sierra Laguna. Nov. 25, 1952. A white oak.

205453. *QUERCUS* sp.

No. 12435. Piñon Flats, Santa Rosa Mountain. Dec. 26, 1952.

**205454 to 205458. SACCHARUM. Poaceae.****Sugarcane.**

From Taiwan. Cuttings presented by the Taiwan Sugar Company, Ltd., Taipei. Received Feb. 18, 1953.

205454. *F* 105.205457. *F* 132.205455. *F* 110.205458. *F* 134.205456. *F* 113.**205459. MALUS SYLVESTRIS Mill. Malaceae.****Apple.**

From Japan. Scions presented by the Aomori Apple Experiment Station, Kuroishi-Machi, Aomori Prefecture. Received Feb. 19, 1953.

*Kinrei.***205460 to 205464.**

From England. Scions presented by the John Innes Horticultural Institution, Hertford, Herts. Received Feb. 18, 1953.

**205460 to 205462. MALUS SYLVESTRIS Mill. Malaceae.****Apple.**205460. *Merton Beauty.*205461. *Merton Delight.*205462. *Merton Pippin.***205463 and 205464. PYRUS COMMUNIS L. Malaceae.****Common pear.**205463. *Merton Belle.*

205464. No. 3996 (5X).

**205465. DIPCADI GLAUCUM Baker. Liliaceae.**

From the Union of South Africa. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Feb. 20, 1953.

No. 1732a. Kruger National Park, Transvaal.

**205466 to 205469. CITRUS spp. Rutaceae.**

From Spain. Seeds presented by L. J. Klotz, American Consulate, Valencia. Received Feb. 20, 1953.

**205466 and 205467. CITRUS LIMON (L.) Burm. f.****Lemon.**205466. *Berna No. 1.*205467. *Berna No. 2.***205468 and 205469. CITRUS SINENSIS (L.) Osbeck.****Orange.**205468. *Comuna-Maceteras.*205469. *Sanguina-Murteres.***205470 and 205471.**

From Pennsylvania. Seeds presented by Albert L. Bailey, West Chester. Received Feb. 20, 1953.

Originally from the Highland Park Arboretum, Rochester, New York.

**205470. ABIES ERNESTII Rehd. Pinaceae.****Fir.****205471. ACER GRISEUM (Franch.) Pax. Aceraceae.****Paperbark maple.**

**205472 to 205475.**

From the Union of South Africa. Bulbs collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Feb. 20, 1953.

**205472. CYRTANTHUS sp. Amaryllidaceae.**

No. 1453. Near Karloof River, north of Howick Falls, Natal. Dec. 26, 1952.

**205473. GLADIOLUS CUSPIDATUS Jacq. Iridaceae.**

No. 1292. In Dutoktskloof Pass between Paarl and Worcester, Cape Province. Nov. 30, 1952.

**205474. GLADIOLUS sp.**

No. 1423. Southeast of Standerton, Transvaal. Dec. 20, 1952.

**205475. NERINE HUMILIS (Jacq.) Herb. Amaryllidaceae.**

No. 1293. Between Paarl and Worcester, Cape Province. Nov. 30, 1952.

**205476 to 205479. CITRUS SINENSIS (L.) Osbeck. Rutaceae.****Orange.**

From Spain. Seeds presented by L. J. Klotz, American Consulate, Valencia. Received Feb. 20, 1953.

**205476. Berna.****205478. Navel.****205477. Comuna.****205479. Sanguina-Doblefina.****205480. PRUNUS PERSICA (L.) Batsch. Amygdalaceae. Peach.**

From Kenya. Seeds presented by T. H. Jackson, Department of Agriculture, Molo. Received Feb. 20, 1953.

**205481. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.**

From Iowa. Plant growing at the Plant Introduction Station, Ames. Numbered Feb. 24, 1953.

Originally from N. F. Thomas, Turrialba, Costa Rica. Reported to be resistant to late blight.

**205482 to 205488.**

From the Union of South Africa. Collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Feb. 24, 1953.

Collected in Cape Province, Feb. 10 and 11, 1953.

**205482. ARISTIDA NAMAQUENSIS (Nees) Trin. & Rupr. Poaceae.**

No. 1835. Near Kakamas. (Cuttings.)

**205483. BOSCIA sp. Capparidaceae.**

No. 1834. Near Uppington. (Cuttings.)

**205484. CRINUM CRISPUM Phillips. Amaryllidaceae.**

No. 1825. Forty miles south of Mafeking. (Bulbs.)

**205485. CRINUM GRAMINICOLUM Verdoorn.**

No. 1828. Fifty-five miles south of Mafeking. (Bulbs.)

**205486. NERINE LATICOMA Dur. & Schinz. Amaryllidaceae.**

No. 1829. Twenty miles south of Vryburg. (Bulbs.)

**205487. TAMARIX APHYLLA (L.) Karst. Tamaricaceae.****Athel.**

No. 1833. Twenty-five miles west of Kakamas. (Cuttings.)



**205482 to 205488—Continued**

205488. *URGINEA* sp. Liliaceae.

No. 1831. Twenty miles southwest of Kuruman. (Bulbs.)

**205489 to 205502. BOEHMERIA** spp. Urticaceae.

From Florida. Plants growing at the Everglades Experiment Station, Belle Glade. Numbered Feb. 24, 1953.

205489 to 205501. *BOEHMERIA NIVEA* (L.) Gaud.

Ramie.

205489. C. M. Cross, São Paulo, Brazil.

205490. *Highland*. Department of Agriculture, Jamaica, British West Indies.

205491. *Lowland*. Department of Agriculture, Jamaica, British West Indies.

205492. *Murakami*. Instituto Agronómico, Campinas, São Paulo, Brazil.

205493. *Kagi Sei*. Toyo Seni Co. Ltd., Tokyo, Japan.

205494. *Saikeiseishin*. Toyo Seni Co., Ltd., Tokyo, Japan.

205495 to 205501. From the Director of Plant Industry, Manila, Philippine Islands.

205495. *Chuma*.

205499. *London*.

205496. *Saikeiseishin-Shu*.

205500. *Ragi*.

205497. *Kagui Hakucho*.

205501. *Guiran Taipan No. 1*.

205498. *Saikeiseishin*.

205502. *BOEHMERIA UTILIS* Diebard.

Carlos Wimmer, Anáhuac, D. F., Mexico.

**205503. DIOSCOREA** sp. Dioscoreaceae.

From the Union of South Africa. Crowns presented by Scherag (Pty.) Ltd., Johannesburg, Transvaal. Received Feb. 24, 1953.

No. 25.

**205504 to 205506.**

From Switzerland. Seeds presented by the Jardin Botanique, Geneva. Received Feb. 24, 1953.

205504. *GLYCYRRHIZA GLABRA* L. Fabaceae.

Licorice.

205505. *LACTUCA PERENNIS* L. Cichoriaceae.

205506. *MENTHA SPICATA* L. Menthaceae.

**205507 to 205528. SOLANUM** spp. Solanaceae.

From England. Seeds presented by the Agricultural Research Council, Cambridge. Received Feb. 24, 1953.

205507 and 205508. *SOLANUM ACAULE* Bitter.

Checca, Canas, Cuzco, Peru.

205507. No. 5376.

205508. No. 5378.

205509. *SOLANUM ANDREANUM* Baker.

No. 2179. Near Meneses, Departamento de Nariño, Colombia.

205510. *SOLANUM ANTIPOVICHII* Buk.

No. 1333.2. Pico de Xitle, Joco, Mexico.

**205507 to 205528—Continued**

205511. *SOLANUM BREVIMUCRONATUM* Hawkes.

No. 71. Obrajes, La Paz, Bolivia.

205512 and 205513. *SOLANUM COLUMBIANUM* Dunal.

205512. No. 2177. Near Tiahuanaco, Bolivia.

205513. No. 2178. Near Meneses, Departamento de Nariño, Colombia.

205514 to 205519. *SOLANUM DEMISSUM* Lindl.

205514. No. 7.3. Above Los Pescados, Cofre de Perote, Veracruz, Mexico.

205515. No. 14.2. Mount Malinche, Mexico.

205516. No. 14.3. Mount Malinche, Mexico.

205517. No. 21.5. Paraje Mungia, Nevada de Toluca, Mexico.

205518. No. 1363.1. Origin unknown.

205519. No. 1364.3. Origin unknown.

205520 and 205521. *SOLANUM DEPEXUM* Juz.

From the Soviet Union.

205520. No. 1167.1.1.

205521. No. 1168.1.

205522. *SOLANUM LONGIPEDICELLATUM* Bitter.

No. 28.4. Near Amecameca, Mexico State, Mexico.

205523. *SOLANUM POLYADENIUM* Greenm.

No. 2077.3. Origin unknown.

205524. *SOLANUM RYBINII* Juz. & Buk.

No. 2359. Market, Popayán, Cauca, Colombia.

205525. *SOLANUM SANTOLALLAE* Vargas.

No. 2078.2. Pillahuata, Cuzco, Peru.

205526 and 205527. *SOLANUM STENOTOMUM* Juz. & Buk.

205526. No. 1839. Paucartambo, Peru.

205527. No. 1782. Huánuco, Peru.

205528. *SOLANUM SUBANDIGENUM* Hawkes.

No. 174.2. La Recoletta de San Francisco, Sucre, Peru.

**205529 to 205539. *MELILOTUS* spp. Fabaceae. Sweetclover.**

From Iowa. Plants growing at the Plant Introduction Station, Ames. Numbered Feb. 24, 1953.

205529 to 205533. *MELILOTUS DENTATA* (Waldst. & Kit.) Pers.

Biennial types originating from University of Wisconsin selections, Madison, Wis.

205529. No. 13076.

205532. No. 13089.

205530. No. 13079.

205533. No. 13090.

205531. No. 13086.

## 205529 to 205539—Continued

205534 to 205539. *MELILOTUS OFFICINALIS* (L.) Lam. **Yellow sweetclover.**

Selections made at Saskatchewan, Canada.

205534. No. 446-1. Originally from P.I. 27474.

205535. No. 778-12. No definite record of origin.

205536. No. 778-18. Originally from P.I. 27374.

205537. No. 7104-10. Selection from P.I. 30434, a mixture received as *Medicago falcata*.

205538. No. 4407. Probably originally from Nebraska.

205539. No. 20173. (No data.)

205540 and 205541. *PRUNUS PERSICA* (L.) Batsch. **Amygdalaceae.**  
**Peach.**

From Maryland. Trees furnished by the Division of Fruit and Nut Crops, Beltsville, Md. Received Feb. 25, 1953.

Varieties developed by the United States Department of Agriculture at Fort Valley, Ga., requiring only 750 hours below 45°F. for successful blooming and fruit setting. Both are vigorous growers.

205540. *Hiland*.

205541. *Redcap*.

## 205542 to 205556.

From New Zealand. Seeds presented by J. S. Yeates, Massey Agricultural College, Palmerston North. Received Feb. 25, 1953.

205542. *ACIPHYLLA COLENSOI* Hook. f. **Apiaceae.**

205543. *ACIPHYLLA SQUARROSA* Forst.

205544. *BULBINELLA HOOKERI* (Colenso) Cheesem. **Liliaceae.**

205545. *CELMISIA CORIACEA* (Forst. f.) Hook. f. **Asteraceae.**

205546. *CELMISIA WALKERI* T. Kirk.

205547. *COPROSMA GRANDIFOLIA* Hook. f. **Rubiaceae.**

205548. *CORDYLINE AUSTRALIS* (Forst.) Hook. **Liliaceae.** **Green dracena.**

205549. *DANTHONIA RAOULII* var. *FLAVESCENS* (Hook. f.) Hack. **Poaceae.**

205550. *HELICHRYSUM BELLIDIODES* (Forst. f.) Willd. **Asteraceae.**

205551. *MYOSOTIDIUM HORTENSIA* (Decaisne) Baill. **Boraginaceae.**

205552. *MYRTUS* sp. **Myrtaceae.**

205553. *NOTHOPANAX ARBOREUM* (Forst.) Seem. **Araliaceae.**

205554. *OLEARIA ILICIFOLIA* Hook. f. **Asteraceae.**

205555. *RANUNCULUS LYALII* Hook. f. **Ranunculaceae.**

205556. *PAROCHETUS COMMUNIS* (Buch.) Ham. **Fabaceae.**

205557. *SOLANUM VALLIS-MEXICAE* Juz. **Solanaceae.**

From Belgium. Tuber presented by the Minister of Agriculture, Libramont. Received June 19, 1952; numbered Feb. 25, 1953.

205558. *VETIVERIA* sp. **Poaceae.**

From Japan. Stolons presented by the Japan Department of Agriculture, Zentsuji, Kagawa, Shikoku. Received Feb. 26, 1953.

**205559. MALUS PRUNIFOLIA (Willd.) Borkh. Malaceae.**

From Germany. Budsticks presented by the Institut für Obstbau, Geisenheim am Rhein. Received Feb. 26, 1953.

*Sikora*, Type I.

**205560 and 205561. SOLANUM spp. Solanaceae.**

From Bolivia. Seeds presented by the Estación Experimental Agrícola, "La Tamborada," Cochabamba. Received Feb. 26, 1953.

**205560.** *SOLANUM CAPSICIBACCATUM* Cárdenas.

**205561.** *SOLANUM PHUREJA* Juz. & Buk.

**205562 to 205566.**

From the Union of South Africa. Bulbs collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Feb. 26, 1953.

**205562.** *GETHYLLIS* sp. Amaryllidaceae.

No. 1836. Ten miles south of Keimoes on road to Kenhardt, Cape Province. Feb. 12, 1953.

**205563.** *GETHYLLIS* sp.

No. 1837. Ten miles south of Keimoes on road to Kenhardt, Cape Province. Feb. 12, 1953.

**205564.** *NERINE ANGUSTIFOLIA* Baker. Amaryllidaceae.

No. 1820. Eight miles east of Bethal, Transvaal. Feb. 7, 1953.

**205565.** *NERINE FALCATA* Barker.

No. 1798. Garden at University Farm, Pretoria, Transvaal. Feb. 4, 1953.

**205566.** *NERINE KRIGEI* Barker.

No. 1818. East of Kinross, Transvaal. Feb. 7, 1953.

**205567 to 205618.**

From Sweden. Scions presented by the Statens Tradgardeforsok, Skovde, Skaraborg. Received Feb. 27, 1953.

**205567 to 205604.** *PRUNUS AVIUM* L. Amygdalaceae. Sweet cherry.

**205567.** *Bankhardtskirsche.*

**205582.** *Lamborn.*

**205568.** *Belle de September.*

**205583.** *Late Black.*

**205569.** *Bigarra Fran Kunglena.*

**205584.** *Lidingobigarra.*

**205570.** *Black Elton.*

**205585.** *Lundins Bigarra Fran Gotland.*

**205571.** *Black Tartarian.*

**205586.** *Merton Premier.*

**205572.** *Braune.*

**205587.** *Rodershram Seedling.*

**205573.** *Cherry 6-10.*

**205588.** *Rote Herzkirsche.*

**205574.** *Doktorskirsche.*

**205589.** *Roter Freiburg.*

**205575.** *Elinelund.*

**205590.** *Sämling Fran Heinrich Storkow.*

**205576.** *Grosse Germersdorfer.*

**205591.** *Schneiders.*

**205577.** *Grosse Gobet.*

**205592.** *Schöders.*

**205578.** *Heidelberger.*

**205593.** *Schubachs Frühe Schwarze.*

**205579.** *Heinrichs Riesen.*

**205580.** *Hornobigarra II.*

**205581.** *Knauf.*

**205594.** *Schwarze Herzkirsche.*



## 205567 to 205618—Continued

## 205567 to 205604—Continued

- |   |   |
|---|---|
| 205595. <i>Sparkle.</i>                 | 205600. <i>Vita Spanska.</i>              |
| 205596. <i>Spiegelkirsche.</i>          | 205601. <i>Waterloo.</i>                  |
| 205597. <i>Svarta Fran Loftahammar.</i> | 205602. <i>Werdersche Markt.</i>          |
| 205598. <i>Svarta Spanska.</i>          | 205603. <i>Woodring Paeonia Lambert.</i>  |
| 205599. <i>Svarta Tartariska.</i>       | 205604. <i>Zum Feldes Frühe Schwarze.</i> |

## 205605 to 205609. PRUNUS CERASUS L.

Sour cherry.

- |  |                             |
|--|-----------------------------|
| 205605. <i>Brunbar fran Blomberg.</i>    | 205608. <i>Korso.</i>       |
| 205606. <i>Brunbar fran Gastrikland.</i> | 205609. <i>La Poitvine.</i> |
| 205607. <i>Brunbar fran Nyckelby.</i>    |                             |

## 205610. × PRUNUS EFFUSA (Host.) Schneid.

Duke cherry.

*May Duke.*

## 205611 to 205613. PRUNUS CERASUS L.

Sour cherry

205611. *Rogueda.*  
 205612. *Rote Mai.*  
 205613. *Rott Majkors.*

## 205614. × PRUNUS EFFUSA (Host.) Schneid.

Duke cherry.

*Royal Duke.*

## 205615. PRUNUS CERASUS L.

Sour cherry.

*Seever.*

## 205616. × PRUNUS EFFUSA (Host.) Schneid.

Duke cherry.

*Sussweichsel aus Olivet.*

## 205617 and 205618. PRUNUS CERASUS L.

Sour cherry.

205617. *Van der Natte.*  
 205618. *Visbyklarbar.*

## 205619 to 205621. QUERCUS spp. Fagaceae.

From Greece. Seeds presented by the University of Thessalonike, Thessalonike. Received Feb. 27, 1953.

205619. QUERCUS TROJANA Webb.

205620. QUERCUS ROBUR L.

English oak.

205621. QUERCUS PEDUNCULIFLORA C. Koch.

## 205622 to 205625. SOLANUM spp. Solanaceae.

From England. Seeds presented by the Agricultural Research Council, Potato Genetics Station, Cambridge. Received Feb. 27, 1953.

205622 to 205624. SOLANUM ANDIGENUM Juz. &amp; Buk.

205622. 2201(30).

205623. 2201(85).

205624. 2201(182).

205625. SOLANUM DEMISSUM Lindl.

**205626 to 205632. VITIS VINIFERA L. Vitaceae. European grape.**

From Italy. Plants presented by the Vivaio Governativo Viti Americane, Palermo. Received Mar. 2, 1953.

205626. 140 R. 205630. T.P. 1041.

205627. 22 S R. 205631. T.P. 1105.

205628. T.P. 773. 205632. T.P. 1447.

205629. T.P. 776.

**205633. LOTUS CORNICULATUS L. Fabaceae. Birdsfoot trefoil.**

From France. Seeds presented by Lucien Lasserre, Toulouse. Received Mar. 2, 1953.

**205634. MEDICAGO SATIVA L. Fabaceae. Alfalfa.**

From Argentina. Seeds presented by A. Burkart, La Plata National University, La Plata, Buenos Aires. Received Mar. 2, 1953.

**205635 to 205637. SOLANUM spp. Solanaceae.**

From Argentina and Brazil. Seeds collected by Alan A. Beetle, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received March 2, 1953.

205635. SOLANUM sp.

No. 913. La Germania Seed Farm, Santa Fe, Argentina. May 15, 1952.

205636. SOLANUM sp.

No. 1519. Vicinity of Caixas, Rio Grande do Sul, Brazil. July 8, 1952.

205637. SOLANUM sp.

No. 2016. East bank of Parana River at Iguazú, Paraná, Brazil. Aug. 17, 1952.

**205638 to 205640. HORDEUM spp. Poaceae. Barley.**

From Ecuador. Seeds presented by W. V. Harlan, Estación Experimental Agrícola del Ecuador, Quito. Received Mar. 2, 1953.

205638. HORDEUM sp.

*Latacunga.*

205639. HORDEUM sp.

*Pelileo.*

205640. HORDEUM sp.

796-1.

**205641 and 205642. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.**

From Italy. Seeds presented by Louis J. Reda, American Embassy, Rome. Received Mar. 2, 1953.

205641. *Genovese.*

205642. *Ladino di Pannocchia.*

**205643 to 205645.**

From Maryland. Plants growing at the United States Plant Introduction Garden, Glenn Dale. Numbered Mar. 3, 1953.

205643. ABELIA. Caprifoliaceae.

A selection from the cross (*A. grandiflora* × *schumannii*) made before 1935 by Edward Goucher. Plant low, compact; flowers white with purple throat.

**205643 to 205645—Continued**

**205644.** *OSMANTHUS ILICIFOLIUS* (Siebold) Masters. Oleaceae.

A variety without spines on the leaf margins.

**205645.** *LIGUSTRUM ACUTISSIMUM* Koehne. Oleaceae.

Presented by B. Y. Morrison, Takoma Park, Md.

**205646 to 205675.**

From Florida. Plants growing at the United States Plant Introduction Station, Coconut Grove. Numbered Mar. 2, 1953.

**105646 to 205648.** Originally from E. A. Menninger, Stuart, Fla.

**205646.** *ACACIA ACUMINATA* Benth. Mimosaceae.

From Western Australia.

**205647.** *CALLIANDRA CALOTHYRSUS* Meissn. Mimosaceae.

From the Botanic Gardens, Kebun Raya, Indonesia.

**205648.** *CALLISTEMON* sp. Myrtaceae.

From the Botanic Garden, Adelaide, South Australia.

**205649.** *CALLISTEMON RUGULOSUS* DC.

From Western Australia. Seeds presented by E. E. Lord.

**205650.** *CASSIA CARNAVAL* Speg. Caesalpiniaceae.

From Argentina, through E. A. Menninger, Stuart, Fla.

**205651.** *CORYPHA UMBRACULIFERA* L. Phoenicaceae.

**Palm.**

From the Atkins Garden and Research Laboratory, Cienfuegos, Cuba.

**205652.** *DAHLIA MAXONII* Safford. Asteraceae.

From the Botanic Gardens, Kebun Raya, Indonesia, through E. A. Menninger, Stuart, Fla.

**205653.** *DEUTZIA TAIWANENSIS* (Maxim.) C. Schneid. Hydrangeaceae.

From E. A. Menninger, Stuart, Fla.

**205654.** *DOMBEYA ELEGANS* Cordem. Sterculiaceae.

Origin unknown.

**205655 and 205656.** *ERYTHRINA HONDURENSIS* Standley. Fabaceae.

**205655.** Origin unknown.

**205656.** From Honduras, through E. A. Menninger, Stuart, Fla.

**205657.** *FERONIA LIMONIA* (L.) Swingle. Rutaceae.

From the Royal Agri-Horticultural Society of India, through E. A. Menninger.

**205658.** *FRAXINUS UHDEI* (Wenzig) Lingelsh. Oleaceae.

**Ash.**

From Mexico, through A. D. Shamel, Riverside, Calif.

**205659 and 205660.** *GEISSOIS BENTHAMII* F. Muell. Cunoniaceae.

**205659.** From Adel's Grove Botanic Garden, Australia, through E. A. Menninger, Stuart, Fla.

**205660.** From Australia, through E. A. Menninger, Stuart, Fla.

**205661.** *HIBISCUS HUEGELII* Endl. Malvaceae.

From B. T. Schubert, East Oakleigh, Victoria, Australia.

**205662.** *KIRKIA WILMSII* Engl. Simaroubaceae.

From the Transvaal, Union of South Africa, through E. A. Menninger, Stuart, Fla.

## 205646 to 205675—Continued

205663. *LAGERSTROEMIA MICROCARPA* R. Wight. Lythraceae.

Origin unknown.

205664 to 205667. Originally from E. A. Menninger, Stuart, Fla.

205664. *LIBIDIBIA PUNCTATA* (Willd.) Britton. Caesalpiniaceae.

205665. *MACROLOBIUM COERULIOIDES* DeWild. Caesalpiniaceae.

From INEAC, Eala, Belgian Congo.

205666. *MELALEUCA PUBESCENS* Schauer. Myrtaceae.

From the Botanic Garden, Adelaide, South Australia.

205667. *MUSSAENDA ERYTHROPHYLLA* Schum. & Thonn. Rubiaceae.

From the Institut Intercolonial d'Andiopodoume, Abidjan, Ivory Coast, Africa.

205668. *MUSSAENDA ROXBURGHII* Hook. f.

From the Chandra Nursery, Rhenok, Sikkim, India.

205669 to 205675. Originally from E. A. Menninger, Stuart, Fla.

205669. *PELTOPHORUM DASYRACHIS* (Miquel) Kurz. Caesalpiniaceae.

205670. *PINUS AYACAHUITE* Ehrenb. Pinaceae.

Pine.

From Guatemala.

205671. *PUTRANJIVA ROXBURGHII* Wall. Euphorbiaceae.

From the Royal Agri-Horticultural Society of India.

205672. *SCHIMA WALLICHII* (DC.) Choisy. Theaceae.

From the Chandra Nursery, Rhenok, Sikkim, India.

205673. *SECURIDACA LONGIPEDUNCULATA* Fres. Polygalaceae.

From Tanganyika, British East Africa.

205674. *SOPHORA MICROPHYLLA* Ait. Fabaceae.

From Duncan & Davies, New Plymouth, New Zealand.

205675. *TECOMA AVELLANEDAE* Speg. Bignoniaceae.

From Argentina.

205676. *URGINEA LANGII* Bremek. Liliaceae.

From the Union of South Africa. Seeds presented by the Division of Botany, Department of Agriculture, Pretoria, Transvaal. Received Mar. 2, 1953.

205677. *VITIS VINIFERA* L. Vitaceae.

European grape.

From France. Cuttings presented by the Centre de Recherches Agronomiques du Sud-ouest, Pont-de-la-Maye, Gironde. Received Mar. 3, 1953.

*Muscadule G.C. 255-10.*

205678 to 205705.

From Honduras. Collected by H. S. Gentry, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Mar. 3, 1953.

Collected in 1953; material was roots unless otherwise stated.

205678. *AGAVE LETONAE* Taylor. Amaryllidaceae.

No. 12483. Escuela Agricultura Panamoniana, Zamorano. Feb. 7. (Plants.)



## 205678 to 205705—Continued

205679. *ALFONSIA OLEIFERA* H.B.K. Phoenicaceae.

Palm.

No. 12501. Lancetilla Field Station, Departamento de Atlántida. Feb. 18. (Seeds.)

205680. *DIOSCOREA MACROSTACHYA* Benth. Dioscoreaceae.

No. 12511. Five miles southwest of La Ceiba, Departamento de Atlántida. Feb. 22.

205681 and 205682. *DIOSCOREA NELSONII* Uline.

205681. No. 12493. Lancetilla Field Station, Departamento de Atlántida. Feb. 15.

205682. No. 12502. Three miles west of La Ceiba, Departamento de Atlántida. Feb. 20.

205683. *DIOSCOREA POLYGONOIDES* Humb. & Bonpl.

No. 12481. Near Zamorano, Departamento de Morazan, Salvador. Feb. 7. (Roots and seeds.)

205684. *DIOSCOREA* sp.

No. 12485. One mile west of San Pedro Sula. Feb. 9.

205685. *DIOSCOREA* sp.

No. 12490. Cofradia, Cortés. Feb. 12.

205686. *DIOSCOREA* sp.

No. 12491. Cofradia, Cortés. Feb. 12.

205687 to 205691. Lancetilla Field Station, Departamento de Atlántida. Feb. 15 to 17.

205687. *DIOSCOREA* sp.

No. 12492.

205688. *DIOSCOREA* sp.

No. 12494.

205689. *DIOSCOREA* sp.

No. 12495.

205690. *DIOSCOREA* sp.

No. 12497.

205691. *DIOSCOREA* sp.

No. 12498.

205692. *DIOSCOREA* sp.

No. 12503. Three miles west of La Ceiba, Departamento de Atlántida. Feb. 20.

205693 to 205698. Eight to ten miles south of La Ceiba, Departamento de Atlántida. Feb. 21.

205693. *DIOSCOREA* sp.

No. 12504.

205694. *DIOSCOREA* sp.

No. 12505.

205695. *DIOSCOREA* sp.

No. 12506.

205606. *DIOSCOREA MACROSTACHYA* Benth.

No. 12507.

## 205678 to 205705—Continued

## 205693 to 205698—Continued

205697. DIOSCOREA sp.

No. 12508.

205698. DIOSCOREA sp.

No. 12509.

205699. DIOSCOREA sp.

No. 12510. Five miles southwest of La Ceiba, Departamento de Atlántida. Feb. 22.

205700. DIOSCOREA sp.

(No number or notes.)

205701. EUCHLAENA MEXICANA Schrad. Poaceae.

Teosinte.

No. 12482. Zamorano. (Seeds.)

205702. FURCRAEA sp. Amaryllidaceae.

No. 12484. Zamorano. Feb. 7. (Plants.)

205703. SMILAX sp. Smilacaceae.

No. 12496. Lancetilla Field Station, Departamento de Atlántida. Feb. 17.

205704. (Undetermined.)

No. 12496. Lancetilla Field Station, Departamento de Atlántida. Feb. 17.

205705. LYCASTE SKINNERI Lindl. Orchidaceae.

Orchid.

No. 12488. (No data.) (Plants.)

205706 and 205707. MALUS SYLVESTRIS Mill. Malaceae. Apple.

From Canada. Scions presented by the Department of Agriculture, Central Experiment Farm, Ottawa. Received Mar. 3, 1953.

205706. O-381.

205707. T-391.

205708. ANTHURIUM sp. Araceae.

From Guatemala. Seeds collected by Oliver W. Norvell, Carnegie Institution of Washington, Stanford, Calif. Numbered Mar. 4, 1953.

No. 2633. Near Gualán.

205709 to 205738. TRITICUM AESTIVUM L. Poaceae.

Common wheat.

From Peru. Seeds presented by A. F. Swanson, Office of Foreign Agricultural Relations, United States Department of Agriculture, Washington, D.C. Received Mar. 3, 1953.

Collected by Rafael Villanueva N., Department of Plant Genetics, La Molina, Lima.

205709. Row 13. *Reward-H44-24-716* × *Rhodesian C.I. 2273*.205710. Row 17. *Reward-H44-24-716* × *Rhodesian C.I. 2273*.205711. Row 24. *Klein 4009606* × *Kenya 58*.205712. Row 27. *Klein 4009606* × *Kenya 58*.205713. Row 29. *Garnet* × *Kenya 58*.205714. Row 31. *Garnet* × *Kenya 58*.205715. Row 32. *Garnet* × *Kenya 58*.205716. Row 43. *Mentana* × *Rhodesian C.I. 2273*.

## 205709 to 205738—Continued

205717. Row 44. *Renown Minn. 11635* × *Rhodesian C.I. 2273*.  
 205718. Row 46. *Rhodesian C.I. 2273* × *Sinvalocho*.  
 205719. Row 47. *Rhodesian C.I. 2273* × *N.A. 101*.  
 205720. Row 53. *Maria Escobar* × *Rhodesian C.I. 2273*.  
 205721. Row 59. *McMurachy Minn. 2698* × *Baladi*.  
 205722. Row 60. *McMurachy Minn. 2698* × *Baladi*.  
 205723. Row 65. (*Maria Escobar* × *McMurachy Minn. 2698*) × *Maria Escobar*.  
 205724. Row 68. *Reward-H44-24-716* × *Baladi*.  
 205725. Row 69. *Reward-H44-24-716* × *N.A. 101*.  
 205726. Row 71. *Reward-H44-24-716* × *N.A. 101*.  
 205727. Row 75. *Maria Escobar* × *Kenya 58*.  
 205728. Row 76. *Maria Escobar* × *Kenya 58*.  
 205729. Row 77. *Maria Escobar* × *Kenya 58*.  
 205730. Row 78. *Maria Escobar* × *H44-Marquis C.I. 11782*.  
 205731. Row 79. *Maria Escobar* × *H44-Marquis C.I. 11782*.  
 205732. Row 80. *Maria Escobar* × *H44-Marquis C.I. 11782*.  
 205733. Row 81. *Maria Escobar* × *H44-Marquis C.I. 11782*.  
 205734. Row 82. *Maria Escobar* × *A.V.18.1.1.1.1.1*.  
 205735. Row 83. *Maria Escobar* × *A.V.18.1.1.1.1.1*.  
 205736. Row 85. *Maribal 50*. (1)  
 205737. Row 90. *Marina 50*. (2)  
 205738. Row 96. *Mariache 50*. (3)

## 205739 and 205740. QUERCUS ROBUR L. Fagaceae. English oak.

From Yugoslavia. Seeds presented by the Institut za Gordarstuo Lesno  
 industrijno LRS, Ljubljana. Received Mar. 5, 1953.

205739. No. I. Slovenia.

205740. No. II. Croatia.

## 205741 to 205860. PRUNUS spp. Amygdalaceae.

From Sweden. Cuttings presented by Ingvar Granhall, Balsgard Fruit  
 Breeding Institute, Fjalkestad. Received Mar. 5, 1953.

## 205741 to 205782. PRUNUS DOMESTICA L.

Common plum.

- |   |  |
|---|--|
| 205741. <i>Bélgiskt Purpulplommon</i> . | 205752. <i>Experimentalfaltets Sviskon</i> . |
| 205742. <i>Biondeck</i> .               | 205753. <i>Extra Early Cherry</i> .          |
| 205743. <i>Blatt Herrepplommon</i> .    | 205754. <i>Fiebing</i> .                     |
| 205744. <i>Blinn de Bry</i> .           | 205755. <i>Fiebing Prize</i> .               |
| 205745. <i>Charcuts of Kharcoff</i> .   | 205756. <i>Greenville</i> .                  |
| 205746. <i>Chernosliv Koslovsky</i> .   | 205757. <i>Hackman</i> .                     |
| 205747. <i>Coates</i> .                 | 205758. <i>Ivanovka</i> .                    |
| 205748. <i>Dura</i> .                   | 205759. <i>Kejsarplommon</i> .               |
| 205749. <i>Ember</i> .                  | 205760. <i>Lojo</i> .                        |
| 205750. <i>Emma Lepperman</i> .         | 205761. <i>Malarplommon</i> .                |
| 205751. <i>Engleskt Sviskon</i> .       | 205762. <i>Manson</i> .                      |

## 205741 to 205860—Continued

## 205741 to 205782—Continued

205763. *Otchakowskaya Zholtays.*  
 205764. *Pipestone.*  
 205765. *Plommon fran Baath.*  
 205766. *Plommon fran Bollnas.*  
 205767. *Plommon fran Uppsala.*  
 205768. *Radisan.*  
 205769. *Reine Claude de Brahy.*  
 205770. *Reine Claude fran Balsnas.*  
 205771. *Reine Claude Noire.*  
 205772. *Reine Claude Stor Gron.*

205773. *Reine Claude Violette.*  
 205774. *Rivers Early Prolific.*  
 205775. *Russian Green Gage.*  
 205776. *Schamals Hostplommon.*  
 205777. *Spaths Fruheste.*  
 205778. *Tidget Engelskt Sviskon.*  
 205779. *Tiern Dessertny.*  
 205780. *Tiern Sladky.*  
 205781. *Tunaplommon.*  
 205782. *Ulriksen.*

## 205783 to 205788. PRUNUS PERSICA (L.) Batsch.

Peach.

205783. *Blangstedgaard.*  
 205784. *Grevinde Ingeberg Moltke.*  
 205785. *Japanska.*

205786. *Kronenstein.*  
 205787. *Marie Rudolf.*  
 205788. *Mme. Nomblot.*

## 205789 to 205860. PRUNUS AVIUM L.

Sweet cherry.

205789. *Allman Gulrod Bigarra.*  
 205790. *Altenlander Frühkirsche.*  
 205791. *Amorella Sklowidna.*  
 205792. *Bigarra Hoy.*  
 205793. *Brodtorps Bigarra.*  
 205794. *Brysselska Bruna.*  
 205795. *Drojna Na.*  
 205796. *Durchsichtige Glaskirsche.*  
 205797. *Erianne.*  
 205798. *Frogmore.*  
 205799. *Fromms Herzkirsche.*  
 205800. *Fruchtbare von Michurin.*  
 205801. *Geroj Rannyj.*  
 205802. *Griotte Kirchhelinski.*  
 205803. *Griotte Severnyj.*  
 205804. *Grosse Schwarze Herzkirsche.*  
 205805. *Hative de Berny.*  
 205806. *Hedelfinger.*  
 205807. *Heinrichs Riesen.*  
 205808. *Horno II Bigarra.*  
 205809. *Intekar.*  
 205810. *Jubilejnaja.*  
 205811. *Jubilejnaja Michurina.*  
 205812. *Kaempekirsebar.*  
 205813. *Klarbar.*  
 205814. *Konigskirsche.*

205815. *Korosi Maggi H. H.*  
 205816. *Krassunja Schasi.*  
 205817. *Latiwka Roschilasta.*  
 205818. *Ljubskaja.*  
 205819. *Majkors fran Alnarp.*  
 205820. *Majkors fran Granna.*  
 205821. *Majkors fran Ranna.*  
 205822. *Maraschkakirsche.*  
 205823. *Merton Bigarra.*  
 205824. *Merton Bounty.*  
 205825. *Merton Favourite.*  
 205826. *Minister Podbielsky.*  
 205827. *Montmorency.*  
 205828. *Montmorency Korotkospilij.*  
 205829. *Nadja Krupskaja.*  
 205830. *Noir de Guben.*  
 205831. *Ostheimer.*  
 205832. *2N "32".*  
 205833. *4 ×*  
 205834. *Ranna Halvbigarra.*  
 205835. *Rannjaja Pruna.*  
 205836. *Rognieda.*  
 205837. *Rote Herzkirsche.*  
 205838. *Roundel.*  
 205839. *Royal Duke.*  
 205840. *Schreckens Bigarra.*



## 205741 to 205860—Continued

## 205789 to 205860—Continued

205841. *Schwarze Knorpelkirsche.*205842. *Schyrpotrep.*205843. *Selonka Roshewa.*205844. *Skuggmorell.*205845. *Sobis.*205846. *Spanka Krasnokurska.*205847. *Spanka Rannjaja.*205848. *Sparhawk.*205849. *Steckmans Bunte.*205850. *Stor svart Bigarra.*205851. *Stora Klarbar.*205852. *Tschernokorka.*205853. *Ukrainische Griotte I.*205854. *Ukrainische Griotte II.*205855. *Vladimir.*205856. *Walpurgis.*205857. *Werderska Tidiga.*205858. *Wladimirskaja.*205859. *Yellow Peck.*205860. *Zuckerbunte.*

## 205861. STROPHANTHUS SARMENTOSUS DC. Apocynaceae.

From New York. Seeds presented by Joseph Monachino, New York Botanical Garden, New York. Received Mar. 6, 1953.

*H. G. 43.* From Senegal and the Sudan.

## 205862 to 205878.

From Germany. Cuttings presented by the Max Planck Institut, Voldagsen über Elze, Hannover. Received Mar. 6, 1953.

205862. *MALUS SYLVESTRIS* Mill. Malaceae.

Apple.

*Gravensteiner.*205863 and 205864. *PRUNUS DOMESTICA* L. Amygdalaceae. Common plum.205863. *Frühe Fruchtbare.*205864. *Magna Glauca.*205865 and 205866. *PRUNUS AVIUM* L.

Sweet cherry.

205865. *Primavera.*205866. *Theissinger Sämling.*205867 to 205878. *PYRUS COMMUNIS* L. Malaceae.

Common pear.

Scab-resistant seedlings.

205867. 1/6.

205873. 1/22.

205868. 1/10.

205874. 1/23.

205869. 1/12.

205875. 2/7.

205870. 1/16.

205876. 2/15.

205871. 1/18.

205877. 2/17.

205872. 1/21.

205878. 2/22.

## 205879 to 205886.

From France. Plants and scions presented by Georges Delbard, Paris. Received Mar. 9, 1953.

205879 to 205882. *CYDONIA OBLONGA* Mill. Malaceae.

Quince.

205879. *Champion.* Fruits large, greenish yellow; tree of medium hardiness.

205880. *Cognassier de Provence.* Fruits large, used for making liquors, jam, and jelly.

205881. *Monsterueuse de Vranja.* Fruits very large; tree hardy.

205882. *Portugal.*

**205879 to 205886—Continued**

205883 to 205886. *PYRUS COMMUNIS* L. Malaceae. **Common pear.**

205883. *Alexandrine Douillard*. Ripens September or October. Fruit large, greenish yellow; tree very hardy.

205884. *Jeanne d'Arc*. Flavor very good; skin green, yellowing when ripe.

205885. *Madame Ballet*. Flavor good; fruits large, yellow when ripe; tree rather hardy.

205886. *Sucrée Rosée de Mothigon*.

**205887 to 205891. MEDICAGO SATIVA L. Fabaceae. Alfalfa.**

From France. Seeds presented by A. Rousset and Fils, Paris. Received Mar. 9, 1953.

205887. *Flamande Socheville B-49*.

205888. *Flamande Socheville B-50*.

205889. *Flamande Socheville B-51*.

205890. *Flamande Socheville B-52*.

205891. *Flamande Socheville B-53*.

**205892 to 205898. SOLANUM TUBEROSUM L. Solanaceae. Potato.**

From England. Presented by the National Institute of Agricultural Botany, Cambridge. Received Mar. 9, 1953.

205892 to 205897. Tubers.

205892. *Aquila*.

205895. K.O.M. 92/43.

205893. K.O.M. 47/42.

205896. K.O.M. 93/43.

205894. K.O.M. 49/42.

205897. K.O.M. 120/43.

205898. K.O.M. 11/43. Seeds.

**205899 to 205915. GLYCINE MAX (L.) Merrill. Fabaceae.**

**Soybean.**

From Thailand. Seeds presented by the American Embassy, Bangkok. Received Mar. 10, 1953.

205899. *Laheng*.

205908. *Sri Samrong*.

205900. *Lopburi*.

205909. *Sumbing No. 452*.

205901. *Ma Kam Lung A*.

205910. *Taklee*.

205902. *Ma Kam Lung B*.

205911. *Tung Tam*.

205903. *Ma Kam Lung C*.

205912. *USA-ARD-A*.

205904. *Mae Rim*.

205913. *No. 27*.

205905. *Mae Tang*.

205914. *No. 29*.

205906. *Ringgit No. 317*.

205915. *No. 520*.

205907. *San Patong Tung Farbut*.

**205916 to 205924.**

From Honduras. Collected by H. S. Gentry, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Mar. 10, 1953.

Collected in 1953.

205916. *AGAVE SEEMANNIANA* Jacobi. Amaryllidaceae.

No. 12513. Tegucigalpa. Feb. 24. (Plants.)

**205916 to 205924—Continued**

**205917 to 205924.** From Departamento de Choluteca.

**205917.** AGAVE sp.

No. 12519. Perspire. Feb. 27. (Plants.)

**205918.** AGAVE sp.

No. 12524. East of Choluteca along road to San Marcos. Feb. 28. (Plants.)

**205919.** DIOSCOREA sp. Dioscoreaceae.

No. 12514. Perspire. Feb. 25. (Crowns.)

**205920.** DIOSCOREA sp.

No. 12515. Perspire. Feb. 26. (Crowns.)

**205921.** DIOSCOREA sp.

No. 12516. Perspire. Feb. 26. (Crowns.)

**205922.** DIOSCOREA sp.

No. 12518. Perspire. Feb. 27. (Roots.)

**205923.** DIOSCOREA sp.

No. 12526. Tablones. Mar. 1. (Roots.)

**205924.** DIOSCOREA sp.

No. 12527. Tablones. Mar. 1. (Crown.)

**205925.** STEGNOSPERMA HALIMIFOLIUM Benth. Phytolaccaceae.

From Mexico. Seeds collected by H. S. Gentry, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Mar. 10, 1953.

No. 12391. Fifteen miles east of San Ignacio along road to Santa Rosalia, Baja, California. Dec. 5, 1952. Fruits magenta, attractive.

**205926.** COFFEA ARABICA L. Rubiaceae.

**Arabian coffee.**

From the Federation of Malaya. Seeds presented by the Department of Agriculture, Kuala Lumpur. Received Mar. 10, 1953.

**205927 to 205954.** COFFEA spp. Rubiaceae.

From Tanganyika. Seeds presented by the Coffee Research and Experimental Station, Lyamungu, Moshi. Received Mar. 10, 1953.

**205927 to 205953.** COFFEA ARABICA L.

**Arabian coffee.**

**205927.** *Amphillo.*

**205941.** *KP. 423.*

**205928.** *Geisha.*

**205942.** *KP. 532.*

**205929.** *Mibirizi.*

**205943.** *L. 1.*

**205930.** *Sudan Barbuk.*

**205944.** *N. 39.*

**205931.** *Sudan Rume.*

**205945.** *N. 48.*

**205932.** *AC. 53.*

**205946.** *N. 50.*

**205933.** *AC. 98.*

**205947.** *N. 100.*

**205934.** *F. 502.*

**205948.** *N. 197.*

**205935.** *F. 840.*

**205949.** *N. 205.*

**205936.** *H. 1.*

**205950.** *P. 313.*

**205937.** *H. 66.*

**205951.** *R. 3.*

**205938.** *I. 60.*

**205952.** *S. 16.*

**205939.** *KP. 228.*

**205953.** *X. 321.*

**205940.** *KP. 263.*

**205954.** COFFEA EUGENIODES S. Moore.

**Coffee.**

## 205955 to 205986.

From Cyprus. Seeds presented by the Department of Agriculture, Nicosia.  
Received Mar. 10, 1953.

205955. *AVENA BARBATA* Brot. Poaceae.

C-52-107. From Agros.

205956. *CORONILLA SCORPIOIDES* (L.) Koch. Fabaceae.

C-52-122. From Lysi.

205957. *HEDYSARUM CORONARIUM* L. Fabaceae.

Sulla.

C-52-112. From Ayia Irini.

205958. *LATHYRUS APHACA* L. Fabaceae.

C-52-120. From Famagusta.

205959. *LATHYRUS GORGONII* Parl.

C-52-148. From Nicosia.

205960. *LATHYRUS* sp.

C-52-115. From Lysi.

205961. *LATHYRUS* sp.

C-52-116. From Lysi.

205962. *LATHYRUS* sp.

C-52-146. From Nicosia.

205963. *LOLIUM PERENNE* L. Poaceae.

Perennial ryegrass.

C-52-125. From Larnaca.

205964. *LOLIUM* sp.

C-52-104. From Norphou.

205965. *LOLIUM* sp.

C-52-109. From Agros.

205966. *LUPINUS LUTEUS* L. Fabaceae.

European yellow lupine.

C-52-119. From Famagusta.

205967. *MEDICAGO CILIARIS* (L.) All. Fabaceae.

C-52-136. From Larnaca.

205968 and 205969. *MEDICAGO FALCATA* L.

Yellow-flowered alfalfa.

205968. C-52-117. From Saitta.

205969. C-52-131. From Trikoukkia.

205970. *MEDICAGO SATIVA* L.

Alfalfa.

C-52-129. From Trikoukkia.

205971. *MELILOTUS ALBA* Desr. Fabaceae.

White sweetclover.

C-52-128. From Trikoukkia.

205972 and 205973. *MELILOTUS INDICA* (L.) All.

Sweetclover.

205972. C-52-103. From Lefkoniko.

205973. C-52-137. From Palechori.

205974. *MELILOTUS* sp.

C-52-113. From Lysi.

205975 and 205976. *ORYZOPSIS MILIACEA* (L.) Benth. & Hook. Poaceae.

205975. C-52-132. From Trikomo.

205976. C-52-133. From Larnaca.



## 205955 to 205986—Continued

205977. PHALARIS TUBEROSA L. Poaceae. Large canary grass.  
C-52-135.

205978 and 205979. PISUM FULVUM Sibth. & Sm. Fabaceae.

205978. C-52-114. From Lysi.

205979. C-52-152.

205980. SANGUISORBA MINOR Scop. Rosaceae. Small burnet.  
C-52-123. From Agros.

205981. SCORPIURUS SUBVILLOSA L. Fabaceae.  
C-52-123. From Lysi.

205982. SECURIGERA SECURIDACA (L.) Deg. & Doerfl. Fabaceae.  
C-52-111. From Bellapais.

205983 and 205984. VICIA NARBONENSIS L. Fabaceae.  
205983. C-52-126. From Lysi.  
205984. C-52-147.

205985. VICIA TENUIFOLIA Roth.  
C-52-134. From Palechori.

205986. VICIA sp.  
C-52-110. From Thermia, Greece.

## 205987 to 206007.

From Sweden. Seeds presented by the Horticultural Research Station,  
Akarp. Received Mar. 10, 1953.

205987. BETA VULGARIS L. Chenopodiaceae. Beet.  
*Egyptist Plattrund W:s/51.*

205988. BRASSICA NAPUS var. NAPOBRASSICA (L.) Reichb. Brassicaceae. Rutabaga.  
*Ostgota.*

205989 and 205990. BRASSICA OLERACEA var. BOTRYTIS L. Cauliflower.  
205989. *Dania I GeF/49.*  
205990. *Erfurter I OE/50.*

205991 to 205994. BRASSICA OLERACEA var. CAPITATA L. Cabbage.  
205991. *Argus W:s/47.*  
205992. *Ditmarsker OJO.*  
205993. *Ruhm von Enkhuizen D.L.F. & F.D.B./48.*  
205994. *September OE.*

205995 and 205996. CUCUMIS SATIVUS L. Cucurbitaceae. Cucumber.  
205995. *Muromsche.*  
205996. *Vasteras Druv OE/45.*

205997 to 205999. DAUCUS CAROTA L. Apiaceae. Carrot.  
205997. *Amsterdamer OE/47.*  
205998. *London Torg.*  
205999. *Regulus W:s/44.*

206000. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.  
*Bonita OJO/50.*

## 205987 to 206007—Continued

206001. PETROSELINUM CRISPUM (Mill.) Nym. Apiaceae. Parsley.  
Extra Mosskrusig.

206002 to 206005. PHASEOLUS VULGARIS L. Fabaceae. Common bean.

206002. Ohlsenia OE/47. 206004. Rekord OE/41.

206003. Regent OE/47. 206005. Triumph OE/41.

206006. PISUM SATIVUM L. Fabaceae. Pea.  
Debut 149.

206007. SPINACIA OLERACEA L. Chenopodiaceae. Spinach.  
Kingen av. Denmark W:s/47.

## 206008 to 206020. VITIS VINIFERA L. Vitaceae. European grape.

From Italy. Cuttings presented by the Institute of Fruit Culture and Electrogenetics, Rome. Received Mar. 11, 1953.

206008. Hussaine. 206015. Pirovano 299.

206009. Pirovano 19. 206016. Pirovano 347.

206010. Pirovano 60. 206017. Pirovano 365.

206011. Pirovano 61. 206018. Pirovano 399.

206012. Pirovano 100. 206019. Sciamplese.

206013. Pirovano 142. 206020. Terra Promessa.

206014. Pirovano 165.

## 206021 to 206035. MALUS SYLVESTRIS Mill. Malaceae. Apple.

From Ireland. Scions presented by James O'Boyle, Killala, County Mayo. Received Mar. 11, 1953.

206021. Ballyfatten. 206029. Keegan's Crab.

206022. Clear Heart. 206030. Kemp.

206023. Gladstone. 206031. Reid's Seedling.

206024. Greasy Pippin. 206032. Ross's Nonpareil.

206025. Green Chisel. 206033. Scarlet Crofton.

206026. Honey Ball. 206034. White Crofton.

206027. Irish Crofton. 206035. Worcester Pearmain.

206028. Irish Peach.

## 206036 to 206042. POPULUS spp. Salicaceae. Poplar.

From the Netherlands. Cuttings presented by Dr. G. Houtzagers, Landbouwhogeschool, Wageningen. Received Mar. 11, 1953.

206036. POPULUS BEROLINENSIS Dipp.

206037. POPULUS DELTOIDES var. MISSOURIENSIS Henry.

206038. POPULUS sp.

Italie 30. Received as *Populus euramericana*, an apparently unpublished species.

206039. POPULUS NIGRA var. ITALICA Muenchh. Lombardy poplar.

206040 and 206041. × POPULUS ROBUSTA Schneid.

206040. (No data.)

206041. B45 (Zwitzerland).

206042. × POPULUS VERNIRUBENS A. Henry.

**206043. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.**

From Puerto Rico. Seeds presented by the Estación Experimental Agrícola, Río Piedras. Received Mar. 12, 1953.

**206044 to 206047.**

From Paraguay. Seeds presented by the Ministerio de Agricultura y Ganadería, Asunción. Received Mar. 12, 1953.

**206044. PHASEOLUS VULGARIS L. Fabaceae. Common bean.**

*Habilla de Puerto Rico.*

**206045. STIZOLOBIUM sp. Fabaceae.**

*Mucuna Ceniza.*

**206046 and 206047. ZEA MAYS L. Poaceae. Corn.**

*206046. Maiz Venezuela I.*

*206047. Maiz Venezuela III.*

**206048 to 206053. TRITICUM AESTIVUM L. Poaceae. Common wheat.**

From Brazil. Seeds presented by Ady Raul Da Silva, Experiment Station, Pelotas, Rio Grande do Sul. Received Mar. 12, 1953.

**206048.** 194-449. **206051.** 4209-50.

**206049.** 3767-50. **206052.** 4616-50.

**206050.** 3790-50. **206053.** 4771-50.

**206054 to 206064.**

From El Salvador and Honduras. Collected by H. S. Gentry, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Mar. 12, 1953.

From El Salvador and material was roots unless otherwise stated; collected Mar. 4 to 6, 1953.

**206054. AGAVE sp. Amaryllidaceae.**

No. 12538. Puerto del Diablo, south of San Salvador. (Plants.)

**206055. DIOSCOREA sp. Dioscoreaceae.**

No. 12528. Four miles southeast of Puerta Libertad. (Tubers.)

**206056. DIOSCOREA sp.**

No. 12529. Four miles southeast of Puerta Libertad. (Root and crown.)

**206057. DIOSCOREA sp.**

No. 12530. Four miles southeast of Puerta Libertad.

**206058. DIOSCOREA sp.**

No. 12532. *Cammotillo*. Two miles southeast of Santa Cruz Porrillo.

**206059. DIOSCOREA sp.**

No. 12533. *Espina del Señor*. Four miles east of Santa Cruz Porrillo. (Crown.)

**206060. DIOSCOREA sp.**

No. 12534. *Sarsaparilla*. Four miles east of Santa Cruz Porrillo.

**206061. DIOSCOREA sp.**

No. 12535. *Cammotillo Barbasco*. Two miles south of San Salvador.

**206062. DIOSCOREA sp.**

No. 12536. Two miles south of San Salvador.

## 206054 to 206064—Continued

206063. *FURCRAEA* sp. Amaryllidaceae.

No. 12541. San Andres Experiment Station of Centro Nacional de Agromía. (Plants.)

206064. (Undetermined.)

No. 12537. Two miles south of San Salvador. (Crowns.)

206065. *IPOMOEA BATATAS* (L.) Lam. Convolvulaceae.

Sweetpotato.

From New Zealand. Tubers presented by T. P. Palmer, Department of Scientific and Industrial Research, Lincoln. Received Sept. 23, 1952; numbered Mar. 12, 1953.

*Kumaras*. Green leaf type.206066 to 206070. *COFFEA ARABICA* L. Rubiaceae. Arabian coffee.

From Brazil. Seeds presented by the Instituto Agronómico, Campinas, São Paulo. Received July 31, 1952; numbered Mar. 16, 1953.

206066. *Bourbon Amarelo*.206069. *Laurina Maragogipe*.206067. *Bourbon Vermelho*.206070. *Mundo Novo*.206068. *Caturra Amarelo*.206071 to 206074. *FRAGARIA*. Rosaceae.

Strawberry.

From Sweden. Plants presented by the Statens Tradgardeforsok, Alnarp. Akarp. Received Mar. 13, 1953.

206071. *Abundance*.206073. *Inga*.206072. *Indra*.206074. *Irma*.

## 206075 to 206090.

From England. Plants purchased from L. R. Russell, Ltd., Richmond Nurseries, Windlesham, Surrey. Received Mar. 13, 1953.

206075 to 206077. *ASTER AMELLUS* L. Asteraceae.206075. *King George*.206076. *Sonia*.206077. *Ultramarine*.206078. *ASTER CORDIFOLIUS* L.*Silver Spray*.206079 and 206080. *ASTER ERICOIDES* L.206079. *Maidenhood*.206080. *Ringdove*.206081. × *ASTER FRIKARTII* Silva Tarouca & C. Schneid.206082. *CAMPANULA CARPATICA* Jacq. Campanulaceae.*Loddon Belle*.206083. *CAMPANULA LACTIFLORA* Bieb.206084. *CAMPANULA PERSICIFOLIA* L.*Fleure de Neige*.206085. *CAMPANULA PORTENSCHLAGIANA* Roem. & Schult.*Maxima*.206086. *CAMPANULA POSCHARYKANA* Degen.



## 206075 to 206090—Continued

206087. HELENIUM AUTUMNALE L. Asteraceae.

*Moerheim Beauty.*

206088. HELENIUM sp.

*The Bishop.*

206089. RUDBECKIA sp. Asteraceae.

*Helpstone.*

206090. THALICTRUM sp. Ranunculaceae.

*Hewitt's Double.*

206091. SOLANUM ACULEATISSIMUM Jacq. Solanaceae.

From New York. Seeds presented by Mrs. Kyra Archimowitsch, Brooklyn.  
Received Mar. 13, 1953.

## 206092 to 206097.

From the Union of South Africa. Collected by R. K. Godfrey, Agricultural  
Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineer-  
ing, Beltsville, Md. Received Mar. 16, 1953.

206092. ACROCERAS MACRUM Stapf. Poaceae.

No. 1953. Prinshof Experiment Station, Pretoria, Transvaal. Mar. 5,  
1953. (Stolons.)

206093. ANOIGANTHUS BREVIFLORUS (Harv.) Baker. Amaryllidaceae.

No. 1880. Near Johannesburg, Transvaal. Feb. 18, 1953. (Bulbs.)

206094. ASPARAGUS FALCATUS L. Liliaceae.

No. 1926. Natal. Mar. 1, 1953. (Seeds and stems.)

206095. BOERHAAVIA FALLACISSIMA Heimerl. Nyctaginaceae.

No. 1954. Near Pretoria, Transvaal. Mar. 4, 1953. (Roots.)

206096. EUCOMIS UNDULATA Ait. Liliaceae.

No. 1881. Near Johannesburg, Transvaal. Feb. 18, 1953. (Bulbs.)

206097. PORTULACARIA AFRA Jacq. Portulacaceae.

No. 1931. Prinshof Experiment Station, Pretoria, Transvaal. Feb. 3,  
1953. (Green tops.)

206098 and 206099. ELEOCHARIS DULCIS (Burm. f.) Henschel.

Cyperaceae.

Waternut.

From Taiwan. Seeds presented by Prof. Yuen-liang Ku, National Taiwan  
University, Taipei. Received Mar. 16, 1953.

206098. A (Small.)

206099. B (Large.)

206100 to 206113. MEDICAGO SATIVA L. Fabaceae.

Alfalfa.

From France. Seeds presented by the Groupement National Interprofes-  
sionnel des Semences Fourragères, Paris. Received Mar. 16, 1953.

206100. C 49.

206107. Flamande Socheville.

206101. FD 100.

206108. Flamande W 268.

206102. V 2723.

206109. Marsis.

206103. Du Puits.

206110. Orchesienne.

206104. Flamande.

206111. Ormelong.

206105. Flamande Chartainvilliers.

206112. Poitou.

206106. Flamande Flendria.

206113. Provence.

**206114 and 206115. CARICA PAPAYA L. Caricaceae. Papaya.**

From the French Cameroons. Seeds presented by Finley Grissett, Lolodorf.  
Received Mar. 16, 1953.

206114. No. 1.

206115. No. 2.

**206116 to 206118. QUERCUS spp. Fagaceae. Oak.**

From Italy. Seeds presented by the Botanic Garden, University of Naples.  
Received Mar. 16, 1953.

206116. QUERCUS HETEROPHYLLA Michx. f.

206117. QUERCUS MACROCARPA Michx.

Burr oak.

206118. QUERCUS PHELLOS L.

Willow oak.

**206119 to 206121. TRITICUM AESTIVUM L. Poaceae.**

Common wheat.

From Argentina. Seeds presented by the Agricultural Attaché, Buenos Aires. Received Mar. 16, 1953.

206119. D.I.V. 6654.

206120. D.I.V. 6655.

206121. D.I.V. 6656.

**206122 and 206123.**

From Italy. Seeds presented by Ralph F. Germann, Agronomist, MSA, Rome. Received Mar. 16, 1953.

Collected in Italian Somalia.

206122. CANAVALLA GLADIATA (Jacq.) D.C. Fabaceae.

Swordbean.

206123. CROTALARIA USARAMOENSIS Baker. f. Fabaceae.

**206124. SANSEVIERIA sp. Liliaceae.**

From Liberia. Plants collected by C. R. Orten, TCA, Monrovia. Received Sept. 23, 1952; numbered Mar. 17, 1953.

From the sandy beach, Monrovia.

**206125 to 206150. RICINUS COMMUNIS L. Euphorbiaceae.**

Castorbean.

From Nicaragua. Seeds presented by Dr. S. C. Litzenberger, Servicio Tecnico Agrícola de Nicaragua, Managua. Received Mar. 17, 1953.

206125. *Ambassador Place*. (Native.)

206126. *Belli* (Native.)

206127. Commercial Oil Plant #1.

206128. Commercial Oil Plant #2.

206129. Commercial Oil Plant #3.

206130. *Duruz*. (Local.)

206131. *Este de Sabana Grande* #1.

206132. *Este de Sabana Grande* #2.

206133. *Este de Sabana Grande* #3.

206134. *Guatemala (Mata Movada) Delicitas*.

206135. *Juigalpa*.

206136. K. M. 110 via Matagalpa.

206137. *Larreynaga*.

## 206125 to 206150—Continued

206138. *Montelimar*.206139. *Oeste de Sabana Grande* #1.206140. *Oeste de Sabana Grande* #3.206141. *Oeste de Sabana Grande* #2.206142. *San Antonio* #1. From San Antonio Sugar Estate, near Chichigalpa.206143. *San Antonio* #2. From San Antonio Sugar Estate, near Chichigalpa.206144. *San Rafael del Sur*.206145. *Solorzano*.206146. *Spencer's Farm*.206147. *Station Farm*. (Local.)206148. *Tipitapa*.206149. *Vaughn's Farm*. (Native.)206150. *Wheat* (Local.)206151. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. **Tomato.**

From India. Seeds presented by V. D. Limaye, Forest Research Institute, New Forest, Dehra Dun. Received Mar. 17, 1953.

*Pavili*.206152 and 206153. *TRIFOLIUM REPENS* L. Fabaceae.**White clover.**

From Wales. Seeds presented by the Welsh Plant Breeding Station, Aberystwyth. Received Mar. 17, 1953.

206152. *Ac2521*. Originally from Kemi, Finland.206153. *Ac2522*. Originally from Jokioinen, Finland.206154. *CAPSICUM FRUTESCENS* L. Solanaceae.**Redpepper.**

From New York. Seeds presented by Mrs. J. Winfield, Painted Post. Received Mar. 17, 1953.

Originally from A. Piovano, University of Mendoza, Argentina.

*Aconcagua*.206155 to 206158. *CITRUS LIMON* (L.) Burm. f. Rutaceae.**Lemon.**

From Italy. Seeds presented by the American Embassy, Rome. Received Mar. 18, 1953.

206155. *Cuciuzzaru*.206157. *Interdonato*.206156. *Femminello*.206158. *Monachello*.206159 to 206173. *ZEA MAYS* L. Poaceae.**Corn.**

From Israel. Seeds presented by the Government Agricultural Experiment Station, Nve-Yaar. Received Mar. 18, 1953.

206159. Arg. S5.

206164. Arg. C J-7.

206160. Arg. 108-S4.

260165. Arg. NF 1.

206161. Arg. S11.

206166. Arg. CM-1.

206162. Arg. S7.

206167. Arg. LU 1.

206163. Arg. B  $\times$  4 S4.

206168. Arg. CM-12.

**206159 to 206173—Continued**

206169. South Africa A-302-1.                      206172. South Africa A-272-2-1.  
 206170. South Africa A-292-3-2.                      206173. South Africa 413-3.  
 206171. South Africa A-14.

**206174 to 206180. BRASSICA OLERACEA var. BOTRYTIS L.**

Brassicaceae.

**Cauliflower.**

From Italy. Seeds presented by Mr. Herb, Naples. Received Feb. 18, 1953;  
 numbered Mar. 19, 1953.

206174. *All Saints*.  
 206175. *Candias Giant*.  
 206176. *Middle Early of Jesi*.  
 206177. *Primus*.  
 206178. *Veitchs Autumn Giant*.  
 206179. *Veitchs Autumn Giant Nec Plus Ultra*.  
 206180. *Veitchs Self-Protecting Late*.

**206181 to 206211. PRUNUS AVIUM L. Amygdalaceae.****Sweet cherry.**

From England. Scions presented by the East Malling Research Station,  
 East Malling, Kent. Received Mar. 20, 1953.

- |   |  |
|---|--|
| 206181. <i>Dun Mazzard</i> .                        | 206196. <i>Norbury's Early Black</i> .     |
| 206182. <i>Florence</i> .                           | 206197. <i>Norwegian</i> .                 |
| 206183. <i>Ham Green Black</i> .                    | 206198. <i>Pitcher's Black</i> .           |
| 206184. <i>Hollander</i> .                          | 206199. <i>Pointed Heart</i> .             |
| 206185. <i>Ironsides A</i> .                        | 206200. <i>Red Cluster</i> .               |
| 206186. <i>Kentish Red A</i> .                      | 206201. <i>Red Turk</i> .                  |
| 206187. <i>Kentish Red C</i> .                      | 206202. <i>Reidem Second Early Black</i> . |
| 206188. <i>Knight's Early Black A</i> .             | 206203. <i>Reine Hartense</i> .            |
| 206189. <i>Knight's Elton Orchard<br/>A and C</i> . | 206204. <i>Small Black Mazzard</i> .       |
| 206190. <i>Large Black Mazzard</i> .                | 206205. <i>Strawberry Heart</i> .          |
| 206191. <i>Lester</i> .                             | 206206. <i>Suttons Prolific</i> .          |
| 206192. <i>Maidens Blush</i> .                      | 206207. <i>Turkey Heart</i> .              |
| 206193. <i>Morello B</i> .                          | 206208. <i>Victoria Black A</i> .          |
| 206194. <i>Morello D</i> .                          | 206209. <i>West Midlands Bigarreau</i> .   |
| 206195. <i>Noir de Guben 3</i> .                    | 206210. <i>Wye Morello</i> .               |
|   | 206211. <i>Yates Seedling</i> .            |

**206212 to 206214.**

From the Union of South Africa. Collected by R. K. Godfrey, Agricultural  
 Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering,  
 Beltsville, Md. Received Mar. 20, 1953.

**206212. ACROCERAS MACRUM Stapf. Poaceae.**

No. 1978. Prinshof Experiment Station, Pretoria, Transvaal. Mar. 10,  
 1953. (Stolons.)

**206213. APODOLIRION MACOWANII Baker. Amaryllidaceae.**

No. 1956. Near Port Elizabeth, Cape Province. Mar. 1, 1953. (Bulbs.)

**206214. PODOCARPUS HENKELII Stapf. Taxaceae.**

No. 1975. Union building grounds, Pretoria. Mar. 10, 1953. (Cutting.)



## 206215 to 206225.

From Central America. Seeds collected by H. S. Gentry, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Mar. 20, 1953.

Seeds collected in 1953; from Honduras unless otherwise stated.

**206215. ACROCOMIA ACULEATA (Jacq.) Lodd. Phoenicaceae. Palm.**

No. 12531. Five miles southeast of Puerta Libertad, El Salvador. Mar. 4, 1953.

**206216. CITRUS SINENSIS (L.) Osbeck. Rutaceae. Orange.**

No. 12454. Market, Rabinal, Baja Verapaz, Guatemala. Jan. 21, 1953.

**206217. DIOSCOREA sp. Dioscoreaceae.**

No. 12514. Perspire. Feb. 28.

**206218. DIOSCOREA sp.**

No. 12516. Perspire. Feb. 28.

**206219. DIOSCOREA sp.**

No. 12517. Perspire. Feb. 28.

**206220. DIOSCOREA sp.**

No. 12522. Choluteca. Feb. 28.

**206221. DIOSCOREA sp.**

No. 12526. Choluteca. Feb. 28.

**206222 and 206223. PHASEOLUS VULGARIS L. Fabaceae. Common bean.**

**206222.** No. 12520. Market, Choluteca. Feb. 27.

**206223.** No. 12521. Market, Choluteca. Feb. 27.

**206224. PHYSALIS sp. Solanaceae.**

No. 12512. Tegucigalpa. Feb. 24.

**206225. SIMAROUBA GLAUCA DC. Simaroubaceae.**

No. 12525. Choluteca. Feb. 28.

## 206226 to 206253. PRUNUS AVIUM L. Amygdalaceae.

**Sweet cherry.**

From England. Scions presented by the East Malling Research Station, East Malling, Kent. Received Mar. 23, 1953.

**206226. *Cerise Libjejece.***

**206241. *Nutberry Black.***

**206227. *Gros Gobet.***

**206242. *Old Black Heart A.***

**206228. *Hooker's Black.***

**206243. *Olivet.***

**206229. *Knight's Bigarreau.***

**206244. *Preserving Mazzard.***

**206230. *Lambert.***

**206245. *Ramon Oliva.***

**206231. *Longley's Black Eagle.***

**206246. *Reidem Early Black.***

**206232. *Ludwig's Bigarreau.***

**206247. *Ries Black.***

**206233. *Mills Seedling.***

**206248. *Ronald's Heart.***

**206234. *Morello A.***

**206249. *Sealand Second Early Black.***

**206235. *Morello C.***

**206250. *Smoky Dun.***

**206236. *Morello E.***

**206251. *Tassels Wood Black.***

**206237. *Newington Late Black.***

**206252. *Turkish Black.***

**206238. *Noir De Schmidt A.***

**206253. *Wellington B.***

**206239. *Noir De Schmidt C.***

**206240. *Norton Black?***

(Suttons Purple.)

**206254 and 206255. TRITICUM AESTIVUM L. Poaceae.****Common wheat.**

From Argentina. Seeds presented by the Division de Exploraciones e Introducción de Plantas, Buenos Aires. Received Mar. 23, 1953.

206254. *Magnif F.*206255. *Magnif G.***206256 and 206257. GOSSYPIUM. Malvaceae.****Cotton.**

From the British West Indies. Seeds presented by the Imperial College of Tropical Agriculture, Trinidad. Received Mar. 23, 1953.

206256. Tree 1.

206257. Tree 2.

**206258. GLYCINE MAX (L.) Merrill. Fabaceae.****Soybean.**

From the Philippines. Seeds presented by H. K. Hayes, University of the Philippines, Laguna. Received Mar. 23, 1953.

*Headgreen.***206259 to 206305.**

From Turkey. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Mar. 23, 1953.

Collected in 1952.

**206259. AGROPYRON TRICHOPHORUM (Link) Richt. Poaceae.**

No. 111. Between Mayla and Yerkoy, Yozgat. Aug. 29.

**206260. AGROPYRON INTERMEDIUM (Host) Beav.**

No. 325. Near Zara, Sivas. Sept. 4. Perennial.

**206261. AGROPYRON sp.**

No. 820. Lake Aband, Bolu. Oct. 6. Perennial.

**206262. ARUM sp. Araceae.**

No. 407. Dogansehir, Malatya. Sept. 7.

**206263. PHLEUM ARENARIUM L. Poaceae.**

No. 495. Erzurum. Sept. 11.

**206264. BROMUS INERMIS Leyss. Poaceae.**

No. 523. Near Askale, Erzurum. Sept. 12. Annual.

**206265 and 206266. DACTYLIS GLOMERATA L. Poaceae.****Orchard grass.**

206265. No. 823. Lake Aband, Bolu. Oct. 6.

206266. No. 548. Near Norsen, Erzurum. Sept. 13.

**206267. ELYMUS sp. Poaceae.**

No. 235. Between Kayseri and Urgup. Aug. 31. Perennial.

**206268. FESTUCA sp. Poaceae.**

No. 113. Between Malya and Yerkoy, Kirsehir. Aug. 29.

**206269. FESTUCA sp.**

No. 326. Near Zara, Sivas. Sept. 4. Perennial.

**206270. FESTUCA ARUNDINACEA Schreb.****Fescue.**

No. 362. Ulas, Sivas. Sept. 5. Perennial.

**206271. GALEGA OFFICINALIS L. Fabaceae.**

No. 324. Near Zara, Sivas. Sept. 4.

## 206259 to 206305—Continued

206272. *GLAUCIUM CORNICULATUM* (L.) Curt. Papaveraceae.

No. 108. Between Malya and Yerkoy, Kirsehir. Aug. 29. Orange-red flowers.

206273. *JUNIPERUS EXCELSA* Bieb. Pinaceae.

Juniper.

No. 933. Sakar Hill, near Emirdag, Afyon. Oct. 10.

206274. *KOELERIA* sp. Poaceae.

No. 112. Between Malya and Yerkoy, Yozgat. Aug. 29.

206275. *ARGYROLOBIMUM CALYCINUM* Jaub. & Spach. Fabaceae.

No. 732. Near Kucukhol, Trabzon. Sept. 25.

206276. *MEDICAGO LUPULINA* L. Fabaceae.

Black medic.

No. 368. Ulas, Sivas. Sept. 5.

206277 to 206283. *MEDICAGO SATIVA* L.

Alfalfa.

206277. No. 249. Bunyan, between Kayseri and Pinarbasi. Sept. 1.

206278. No. 289. Pasa Fabricasi, Sivas. Sept. 3.

206279. No. 304. Sivas. Sept. 3.

206280. No. 376. Near Deliktas, Sivas. Sept. 5.

206281. No. 370. Ulas, Sivas. Sept. 5.

206282. No. 357. Ulas, Sivas. Sept. 5.

206283. No. 369. Ulas, Sivas. Sept. 5.

206284. *TRIGONELLA SPICATA* Sibth. & Smith. Fabaceae.

No. 387. Near Malatya. Sept. 6. Annual.

206285. *MEDICAGO FALCATA* L. Fabaceae.

Yellow-flowered alfalfa.

No. 411. Dogansehir, Malatya. Sept. 7.

206286 and 206287. *MEDICAGO SATIVA* L.

Alfalfa.

206286. No. 413. Dogansehir, Malatya. Sept. 7.

206287. No. 734. State nursery, Trabzon. Sept. 25.

206288. *ONOBRYCHIS BALANSAE* Boiss. Fabaceae.

No. 543. Kop Mountain, Gumusane. Sept. 12.

206289. *PHRAGMITES* sp. Poaceae.

No. 311. Korucayri, near Hafik, Sivas. Sept. 4. Perennial.

206290. *PHRAGMITES* sp.

No. 312. Korucayri, near Hafik, Sivas. Sept. 4. Perennial.

206291. *POA BULBOSA* L. Poaceae.

No. 101. One hundred and sixty-seven km. southeast of Ankara along Route 60, Kirsehir. Aug. 28.

206292. *POA* sp.

No. 115. Between Malya and Yerkoy, Yozgat. Aug. 29.

206293. *POA* sp.

No. 557. Base of Tosik Mountain, Erzurum. Sept. 13. Perennial.

206294. *SECALE* sp. Poaceae.

No. 109. Between Malya and Yerkoy, Kirsehir. Aug. 29.

206295. *SESLERIA ARGENTEA* Savi. Poaceae.

No. 1161. Istanbul. Oct. 24. Perennial.

## 206259 to 206305—Continued

206296. *LOTUS LIBANOTICUS* Boiss. Fabaceae.

No. 392. Ismetpasa, Malatya. Sept. 6. Perennial.

206297. *TETRAGONOLOBUS SILIQUOSUS* (L.) Roth. Fabaceae.

No. 62. Forty km. southeast of Ankara along Route 60, near Beyran Forest. Aug. 28.

206298. *TRIFOLIUM MEDIUM* Huds. Fabaceae.

Mammoth clover.

No. 643. Near Kirkpazar, Kars. Sept. 19.

206299. *TRIFOLIUM PRATENSE* L.

Red clover.

No. 409. Doganşehir, Malatya. Sept. 7.

206300 and 206301. *TRIFOLIUM FRAGIFERUM* L.

Strawberry clover.

206300. No. 301. Sivas. Sept. 3. Creeping perennial.

206301. No. 410. Doganşehir, Malatya. Sept. 7. Creeping perennial.

206302. *TRIFOLIUM REPENS* L.

White clover.

No. 448. Near Malatya at State nursery. Sept. 8.

206303. *TRIFOLIUM SPADICEUM* L.

No. 568. Base of Tosik Mountain, Erzurum. Sept. 13.

206304. *TRIFOLIUM* sp.

No. 574. Base of Tosik Mountain, Erzurum. Sept. 13.

206305. *CORONILLA GLAUCA* Jusl. Fabaceae.

No. 540. Kop Mountain, Gumusane. Sept. 12. Perennial.

## 206306 to 206310.

From Denmark. Seeds presented by the Danish Seedgrain &amp; Grainexport Ltd., Nykøbing, Falster. Received Mar. 23, 1953.

206306 and 206307. *AVENA SATIVA* L. Poaceae.

Oats.

206306. *Palu*.206307. *Rex*.206308 to 206310. *HORDEUM VULGARE* L. Poaceae.

Barley.

206308. *Alfa*.206309. *Drost*.206310. *Rigel*.

## 206311 to 206338.

From South America. Seeds collected by A. A. Beetle, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Mar. 23, 1953.

Collections were made in 1952.

206311. *ANEMONE MULTIFIDA* Poir. Ranunculaceae.

No. 69. Cañadón León, Santa Cruz, Argentina. Feb. 28.

206312. *ARMERIA MARITIMA* var. *ANDINA* (Phil.) Lawr. Plumbaginaceae.

No. 362. Mountain La Torta, Chubut, Argentina. Mar. 30.

206313. *BELOPERONE AMHERSTII* Nees. Acanthaceae.

No. 1897. Rio Grande do Sul, Brazil. Aug. 7.

206314. *CENTRATHERUM MUTICUM* (H.B.K.) Less. Asteraceae.

No. 2027. East banks of Rio Parana at Iguassú, Paraná, Brazil. Aug. 17.



## 206311 to 206338—Continued

206315. *CLYTOSTOMA CALLISTEGIOIDES* Bur. Bignoniaceae.  
No. 1693. Rio Grande do Sul, Brazil. July 22.
206316. *CYPERUS NIGER* Ruiz & Pav. Cyperaceae.  
No. 589. Mendoza, Argentina. Apr. 22.
206317. *DESMODIUM CANUM* (Gmel.) Schinz & Thell. Fabaceae.  
No. 2003. East bank of Rio Paraná, Brazil. Aug. 17.
206318. *ERYTHROXYLON ARGENTINUM* O. E. Schultz. Erythroxylaceae.  
No. 1936. Pôrto Alegre, Rio Grande do Sul, Brazil. Aug. 15.
206319. *GALACTIA* sp. Fabaceae.  
No. 2192. Banks of Rio Paraná, Brazil. Aug. 22.
206320. *HIBISCUS AMOENUS* Link & Otto. Malvaceae.  
No. 1705. Rio Grande do Sul, Brazil. July 22.
206321. *HOFFMANSEGGIA FALCARIA* Cav. Fabaceae.  
No. 626. Mendoza, Argentina. Apr. 24.
206322. *HYPTIS MUTABILIS* (Rich.) Briq. Menthaceae.  
No. 1597. Thirty km. south of Pôrto Alegre, Rio Grande do Sul, Brazil. July 13.
206323. *INDIGOFERA SUFFRUTICOSA* Mill. Fabaceae.  
No. 1996. East banks of Rio Paraná at Iguassú, Brazil. Aug. 17.
206324. *LATHYRUS MACROPUS* H. & A. Fabaceae.  
No. 584. Between Mendoza and Upsallata, Mendoza, Argentina. Apr. 22.
206325. *LYCHNIS PATAGONICA* Speg. Silenaceae.  
No. 387. Mountain La Torta, Chubut, Argentina. Mar. 30.
206326. *MELILOTUS INDICA* (L.) All. Fabaceae. Sweetclover.  
No. 919. La Germania Seed Farm, Los Rosas, Santa Fé, Argentina. May 15.
206327. *ACACIA* sp. Mimosaceae.  
No. 637. San Luis, Argentina. Apr. 25.
206328. *ACACIA BONARIENSIS* Gillies.  
No. 910. La Germania Seed Farm, Los Rosas, Santa Fé, Argentina. May 15.
206329. *PANICUM TRICHANTHUM* Nees. Poaceae.  
No. 1727. Near Montenegro, Rio Grande do Sul, Brazil. July 24.
206330. *PANICUM* sp.  
No. 2233. Ten km. west of Pelotas, Rio Grande do Sul, Brazil. Aug. 28.
206331. *PERNETTYA PUMILA* var. *LEUCOCARPA* (DC) Kausel. Ericaceae.  
No. 373. Mountain La Torta, Chubut, Argentina.
206332. *PETUNIA* sp. Solanaceae.  
No. 2044. Banks of Rio Paraná, Brazil. Aug. 18.
206333. *RUBUS GEOIDES* J. E. Sm. Rosaceae.  
No. 361. Vicinity of Lago Futalaufquén, Chubut, Argentina.

**206311 to 206338—Continued**

**206334.** *RUBUS URTICIFOLIUS* Poir.

No. 2014. East bank of Rio Paraná, Brazil. Aug. 17.

**206335.** *SOLANUM VERBASCIFOLIUM* L. Solanaceae.

No. 1440. Vicinity of Guaíba, Rio Grande do Sul, Brazil. July 2.

**206336.** *SOLANUM* sp.

No. 2155. Banks of Rio Paraná, Paraguay. Aug. 21.

**206337.** *TALINUM PATENS* (L.) Willd. Portulacaceae.

No. 2050. East bank of Rio Paraná, Brazil. Aug. 18.

**206338.** *TRICHILLA ELEGANS* JUSS. Meliaceae.

No. 1968. San Leopoldo, Rio Grande do Sul, Brazil. Aug. 15.

**206339 to 206349.**

From the Union of South Africa. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Mar. 23, 1953.

**206339.** *ERAGROSTIS CURVULA* (Schrud.) Nees. Poaceae.

Weeping lovegrass.

No. 1528. On western slope of Drakensberg, Cape Province. Jan. 3, 1953.

**206340.** *MEDICAGO SATIVA* L. Fabaceae.

Alfalfa.

No. 1226. On farm near Warmbaths, Transvaal. Nov. 14, 1952.

**206341.** *SETARIA NIGRIROSTRIS* (Nees) Dur. & Schinz. Poaceae.

No. 1499. Research station near Amalf, west of Kokstad, Cape Province. June 2, 1952.

**206342 to 306349.** *THEMEDA TRIANDRA* Forsk. Poaceae.

**206342.** No. 1483. Cathedral Peak area of Drakensberg Mountains, Natal. Dec. 31, 1952.

**206343 to 206348.** From Cape Province. Jan. 3 and 4, 1953.

**206343.** No. 1511. Between Mount Fletcher and Eland's Heights.

**206344.** No. 1520. Between Mount Fletcher and Eland's Heights.

**206345.** No. 1529. Nine miles west of Rhodes.

**206346.** No. 1530. Four miles northwest of Barkly East.

**206347.** No. 1536. Six miles southeast of Lady Grey.

**206348.** No. 1545. Four miles west of Lady Grey.

**206349.** No. 1553. Orange Free State. Jan. 5, 1953.

**206350 to 206355.**

From Sweden. Scions and plants presented by the Horticultural Research Station, Alnarp, Akarp. Received Mar. 24, 1953.

**206350.** *HEPATICA ANGULOSA* DC. Ranunculaceae.

**206351 and 206352.** *MALUS SYLVESTRIS* Mill. Malaceae.

Apple.

**206351.** *Stenbock*.

**206352** T 16/36.

**206353 and 206354.** *PRUNUS DOMESTICA* L. Amygdalaceae. Common plum.

**206353.** Station Selection.

**206354.** *Opal*.

**206350 to 206355—Continued**206355. *PYRUS COMMUNIS* L. Malaceae.

Common pear.

*Pierre Corneille.***206356 to 206358.**

From Italy. Scions presented by Arturo Ansaloni, Bologna. Received Mar. 24, 1953.

206356. *MALUS SYLVESTRIS* Mill. Malaceae.

Apple.

*Abbondanza.*206357 and 206358. *PRUNUS AVIUM* L. Amygdalaceae.

Sweet cherry.

206357. *Moretta di Arezzo.*206358. *Moretta di Vignola.*

No. 1199a.

**206359 to 206367. TRITICUM AESTIVUM** L. Poaceae.

Common wheat.

From Australia. Seeds presented by the Department of Agriculture, Sydney, New South Wales. Received Mar. 24, 1953.

206359. *Bencubbin.*206364. *Festival.*206360. *Brolga.*206365. *Ford.*206361. *Celebration.*206366. *Glenwari.*206362. *Curlew.*206367. *Gular.*206363. *Dowerin.***206368. RHODODENDRON SIMSII** Planch. Ericaceae.

From India. Seeds collected by the Kingdon-Ward Expedition of 1949; presented by the New York Botanical Garden, Bronx Park, N. Y. Numbered Mar. 24, 1953.

**206369. RICINUS COMMUNIS** L. Euphorbiaceae.

Castorbean.

From Mexico. Seeds presented by José L. López, Tamazula, Sinaloa. Received Mar. 25, 1953.

A dwarf, very prolific variety.

**206370 and 206371. PANICUM** spp. Poaceae.

From the Union of South Africa. Seeds presented by Theo. Wassenaar, Middelburg, Transvaal. Received Mar. 25, 1953.

206370. *PANICUM COLORATUM* L.206371. *PANICUM STAPFIANUM* Fourc.**206372 to 206394.**

From Cyprus. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Mar. 26, 1953.

Seeds obtained in 1952 from Dr. Kenneth Jones, Director of Agriculture, Nicosia.

206372. *HORDEUM BULBOSUM* L. Poaceae.

Grass.

No. 1214.

206373. *LATHYRUS OCHRUS* (L.) DC. Fabaceae.206374 and 206375. *LATHYRUS SATIVUS* L.

Bittervetch.

206374. No. 1208.

206375. No. 1216.

**206372 to 206394—Continued**

- 206376 and 206377. *LOLIUM PERENNE* L. Poaceae. Perennial ryegrass.  
 206376. No. 1211.  
 206377. No. 1218.
206378. *LOTUS CORNICULATUS* L. Fabaceae. Birdsfoot trefoil.  
 No. 1200.
206379. *TETRAGONOLOBUS PURPUREUS* Moench.  
 No. 1209.
206380. *MEDICAGO HISPIDA* Gaertn. Fabaceae. Burclover.  
 No. 1206.
206381. *MEDICAGO TRIBULOIDES* Desr. Barrel medic.  
 No. 1219.
206382. *MELILOTUS INDICA* (L.) All. Fabaceae. Sweetclover.  
 No. 1210.
206383. *MELILOTUS SULCATA* Desf.  
 No. 1213.
206384. *MELILOTUS MESSANENSIS* (L.) All.  
 No. 1203.
206385. *MELILOTUS* sp.  
 No. 1221.
206386. *ORYZOPSIS MILIACEA* (L.) Benth. & Hook. Poaceae.  
 No. 1201.
206387. *PHALARIS TUBEROSA* L. Poaceae. Large canary grass.  
 No. 1212.
206388. *TRIFOLIUM ALEXANDRINUM* L. Fabaceae. Berseem.  
 No. 1217.
206389. *TRIFOLIUM SUBTERRANEUM* L. Subterranean clover.  
 No. 1215.
206390. *VICIA ARTICULATA* Hornem. Fabaceae.  
 No. 1222.
206391. *VICIA DASYCARPA* Ten.  
 No. 1204.
- 206392 to 206394. *VICIA SATIVA* L. Common vetch.  
 206392. No. 1202.  
 206393. No. 1205.  
 306394. No. 1220.

**206395 to 206496.**

From Turkey. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Mar. 26, 1953.

Collected in 1952.

206395. *ACHILLEA* sp. Asteraceae.

No. 114. Between Malatya and Yerkoy, Yozgat. Aug. 29.



**206395 to 206496—Continued**

206396. *AGROPYRON CRISTATUM* (L.) Gaertn. Poaceae.

Crested wheatgrass.

No. 119. Twenty km. south of Yerkey, Kirsehir. Aug. 29.

206397. *AGROPYRON INTERMEDIUM* (Host.) Beauv.

No. 603. Near Karaorgan, Kars. Sept. 17. Perennial.

206398. *AGROSTIS SEMIVERTICILLATA* (Forsk.) C. Chr. Poaceae.

No. 452. Between Firat River and Elazig. Sept. 8.

206399. *AGROSTIS* sp.

No. 472. Near Hafik along Murat River, Elazig. Sept. 9.

206400. *ALOPECURUS ARUNDINACEUS* Poir. Poaceae.

No. 313. Korucayri, near Hafik, Sivas. Sept. 4.

206401. *ANDROPOGON* sp. Poaceae.

No. 229. Near village of Yesil Hisar, Kayseri. Aug. 31. Perennial.

206402. *AGROPYRON* sp. Poaceae.

No. 486. Near Pulumur, Tunceli. Sept. 10. Perennial.

206403. *ANDROPOGON* sp. Poaceae.

No. 466. Near Hafik along Murat River, Elazig. Sept. 9. Perennial.

206404. *ASTRAGALUS* sp. Fabaceae.

No. 248. Between Kayseri and Pinarbasi. Sept. 1.

206405. *ASTRAGALUS CICER* L.

No. 522. North slope of Kop Mountain, Gumusane. Sept. 13.

206406. *ASTRAGALUS GALEGIFORMIS* L.

No. 616. Near Karaorgan, Kars. Sept. 17. Perennial.

206407 and 206408. *BETA VULGARIS* L. Chenopodiaceae.

Common beet.

206407. No. 694. Trabzon. Sept. 22.

206408. No. 950. Harasi Farm, Eskisehir. Oct. 10.

206409. *BETA* sp.

No. 355. Serefiye north of Zara, Sivas. Sept. 4.

206410. *BETA* sp.

No. 377. At Keliktas, Sivas. Sept. 5.

206411. *BETA* sp.

No. 723. Near Macka, Trabzon. Sept. 24.

206412. *BRIZA* sp. Poaceae.

No. 102. One hundred and sixty-seven km. southeast of Ankara along Route 60, Kirsehir. Aug. 28.

206413. *BRIZA* sp.

No. 469. Near Hafik along Murat River, Elazig. Sept. 9. Annual.

206414. *BRIZA* sp.

No. 496. Near Pulumur, Tunceli. Sept. 10. Perennial.

206415. *BROMUS SQUARROSUS* L. Poaceae.

No. 103. One hundred and sixty-seven km. southeast of Ankara along Route 60, Kirsehir. Aug. 28.

## 206395 to 206496—Continued

206441. *BRACHYPODIUM* sp. Poaceae.

No. 383. Near Malatya. Sept. 6. Perennial.

206416. *BROMUS* sp.

No. 356. Ulas, Sivas. Sept. 5. Annual.

206417. *BROMUS TECTORUM* L.

No. 601. Near Karaorgan, Kars. Sept. 17. Annual.

206418. *BROMUS INERMIS* Leyss.

No. 623. Between Kars and Kagizman. Sept. 18. Perennial.

206419 to 206421. *CAPSICUM FRUTESCENS* L. Solanaceae. Redpepper.

206419. No. 701. Bazaar, Trabzon. Sept. 22.

206420. No. 746. Bazaar, Giresun. Sept. 26.

206421. No. 1138. Izmir. Oct. 21.

206422. *CERCIS SILIQUASTRUM* L. Caesalpiniaceae.

No. 450. Near Malatya at State nursery. Sept. 8.

206423. *CHRYSOPOGON* sp. Poaceae.

No. 389. Near Malatya. Sept. 6. Perennial.

206424. *CLEMATIS ORIENTALIS* L. Ranunculaceae.

No. 386. Near Malatya. Sept. 6.

206425. *CUCUMIS SATIVUS* L. Cucurbitaceae.

Cucumber.

No. 700. Bazaar, Trabzon. Sept. 22.

206426. *CUCURBITA PEPO* L. Cucurbitaceae.

Pumpkin.

No. 879. Ankara. Oct. 8.

206427. *CYNODON DACTYLON* (L.) Pers. Poaceae.

Bermuda grass.

No. 462. Near Elazig. Sept. 9.

206428 to 206435. *DACTYLIS GLOMERATA* L. Poaceae.

Orchard grass.

206428. No. 602. Near Karaorgan, Kars. Sept. 17.

206429. No. 714. Trabzon. Sept. 23.

206430. No. 763. Samsun. Sept. 29.

206431. No. 789. Ankara. Oct. 3.

206432. No. 790. Ankara. Oct. 3.

206433. No. 794. Near Kurtbogazi, Ankara. Oct. 5.

206434. No. 801. Camkora Forest, Ankara. Oct. 5.

206435. No. 813. Between Bolu and Lake Aband. Oct. 6.

206436. *DIGITARIA* sp. Poaceae.

No. 453. Between Fırat River and Elazig. Sept. 8. Annual.

206437. *ERAGROSTIS CURVULA* (Schröd.) Nees. Poaceae.

Weeping lovegrass.

No. 396. Sultan Suyu Harası, Malatya. Sept. 7. Perennial.

206438. *ERAGROSTIS* sp.

No. 449. Near Malatya at State nursery. Sept. 8.

206439. *ERAGROSTIS* sp.

No. 458. Near Elazig. Sept. 9. Annual.

## 206395 to 206496—Continued

206440. *EUONYMUS* sp. Celastraceae.  
No. 253. Between Kayseri and Pinarbasi. Sept. 1.
206442. *GENISTA* sp. Fabaceae.  
No. 527. Kop Mountain, Gumusane. Sept. 12.
206443. *HORDEUM BULBOSUM* L. Poaceae. Grass.  
No. 778. Near Havza, Samsun. Sept. 29.
206444. *LACTUCA SATIVA* L. Cichoriaceae. Lettuce.  
No. 834. Bazaar, Bolu. Oct. 7.
206445. *LATHYRUS PRATENSIS* L. Fabaceae. Yellow-vetch.  
No. 647. Near Kirkpman, Kars. Sept. 19.
206446. *LOTUS TENUIS* Waldst. & Kit. Fabaceae.  
No. 72. Fifty-three km. southeast of Ankara along Route 60. Aug. 28.
- 206447 and 206448. *LOTUS CORNICULATUS* L. Birdsfoot trefoil.  
206447. No. 251. Between Kayseri and Pinarbasi. Sept. 1.  
206448. No. 460. Near Elazig. Sept. 9.
- 206449 and 206450. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato.  
206449. No. 703. Bazaar, Trabzon. Sept. 22.  
206450. No. 721. Bazaar, Trabzon. Sept. 23.
- 206451 to 206454. *MEDICAGO SATIVA* L. Fabaceae. Alfalfa.  
206451. No. 272. Kerim Oglu Gardens, near Pinarbasi. Sept. 1.  
206452. No. 614. Near Karaorgan, Kars. Sept. 17.  
206453. No. 412. Dogansehir, Malatya. Sept. 7.  
206454. No. 414. Dogansehir, Malatya. Sept. 7.
206455. *MEDICAGO* sp.  
No. 484. Near Erzurum. Sept. 11.
206456. *MEDICAGO FALCATA* L. Yellow-flowered alfalfa.  
No. 620. Between Kars and Kagizman. Sept. 18.
206457. *MELICA* sp. Poaceae.  
No. 613. Near Karaorgan, Kars. Sept. 17. Perennial.
- 206458 and 206459. *ONOBRYCHIS VICIAEFOLIA* Scop. Fabaceae. Sainfoin.  
206458. No. 869. Ankara. Oct. 8.  
206459. No. 951. Harasi Farm, Eskisehir. Oct. 10.
206460. *SETARIA GLAUCA* (L.) Beauv. Poaceae.  
No. 556. Base of Tosik Mountain, Erzurum. Sept. 13.
206461. *PENNISETUM ORIENTALE* L. Rich. Poaceae.  
No. 795. Kurtbogazi, Ankara. Oct. 5.
206462. *PENNISETUM* sp.  
No. 468. Near Hafik along Murat River, Elazig. Sept. 9.
206463. *PHALARIS* sp. Poaceae.  
No. 606. Near Karaorgan, Kars. Sept. 17. Perennial.
206464. *PHRAGMITES* sp. Poaceae.  
No. 481. Near Kamut, Tunceli. Sept. 10. Perennial.

## 206395 to 206496—Continued

206465. *POA* sp. Poaceae.

No. 471. Near Hafik along Murat River, Elazig. Sept. 9. Annual.

206466. *POA PRATENSIS* L.

Kentucky bluegrass.

No. 633. Near Mezraa, Kars. Sept. 19.

206467 and 206468. *RAPHANUS SATIVUS* L. Brassicaceae.

Radish.

206467. No. 698. Bazaar, Trabzon. Sept. 22.

206468. No. 704. Bazaar, Trabzon. Sept. 22.

206469. *RHODODENDRON LUTEUM* Sweet. Ericaceae.

No. 761. Twenty-five km. south of Samsun. Sept. 29.

206470. *RUBUS* sp. Rosaceae.

No. 817. Lake Aband, Bolu. Oct. 6.

206471. *SOPHORA ALOPECUROIDES* L. Fabaceae.

No. 405. Sultan Suyu Harasi, Malatya. Sept. 7.

206472. *SOLANUM MELONGENA* L. Solanaceae.

Eggplant.

No. 697. Bazaar, Trabzon. Sept. 22.

206473 to 206475. *SPINACIA OLERACEA* L. Chenopodiaceae.

Spinach.

206473. No. 695. Bazaar, Trabzon. Sept. 22.

206474. No. 833. Bazaar, Bolu. Oct. 7.

206475. No. 1027. Bazaar, Elmadi, Antalya. Oct. 14.

206476. *STIPA* sp. Poaceae.

No. 619. Between Kars and Kagizman. Sept. 18.

206477. *STIPA* sp.

No. 621. Between Kars and Kagizman. Sept. 18.

206478. *TRIFOLIUM FRAGIFERUM* L. Fabaceae.

Strawberry clover.

No. 60. Forty km. southeast of Ankara along Route 60. Aug. 28.

206479. *TRIFOLIUM CAMPESTRE* Schreb.

No. 482. Near Kamut, Tunceli. Sept. 10.

206480. *TRIFOLIUM* sp.

No. 560. Base of Tosik Mountain, Erzurum. Sept. 13.

206481. *TRIFOLIUM HYBRIDUM* L.

Alsike clover.

No. 561. Base of Tosik Mountain, Erzurum. Sept. 13.

206482 and 206483. *TRIFOLIUM AMBIGUUM* Bieb.

206482. No. 578. On Dumlu Mountain, northeast of Erzurum. Sept. 14.

206483. No. 652. Near Sarikamis, Kars. Sept. 20.

206484. *TRIFOLIUM* sp.

No. 656. Near Sarikamis, Kars. Sept. 20.

206485. *TRIFOLIUM MEDIUM* Huds.

Mammoth clover.

No. 731. Near Kucukhol, Trabzon. Sept. 25.

206486. *TRIGONELLA CAERULEA* (L.) Ser. Fabaceae.

No. 216. Near Kayseri. Aug. 31.

206487. *CORONILLA VARIA* L. Fabaceae.

Crownvetch.

No. 231. Eighty-two km. southwest of Kayseri, near village of Yesil Hisar. Aug. 31.



**206395 to 206496—Continued**

206488. *VIBURNUM OPULUS* L. Caprifoliaceae. **European cranberrybush.**

No. 254. At Bunyan, between Kayseri and Pinarbasi. Sept. 1.

206489. *VICIA ERVILIA* (L.) Willd. Fabaceae. **Vetch.**

No. 861. Ankara. Oct. 8.

206490 and 206491. *VICIA SATIVA* L. **Common vetch.**

206490. No. 678. Zigana Pass, between Torul and Macka. Sept. 21.

206491. No. 865. Ankara. Oct. 8.

206492 and 206493. *VICIA VILLOSA* Roth. **Hairy vetch.**

206492. No. 860. Ankara. Oct. 8.

206493. No. 877. Ankara. Oct. 8.

206494. *VICIA CRACCA* L. **Cow vetch.**

No. 270. Kerim Oglu Gardens, near Pinarbasi, Kayseri. Sept. 1.

206495. *VICIA PEREGRINA* L.

No. 367. Ulas, Sivas. Sept. 5.

206496. *VICIA BRACHYTROPIS* Kar. & Kir.

No. 646. Near Kirkpman, Kars. Sept. 19.

206497 and 206498. *PISTACIA* spp. Anacardiaceae.

From Turkey. Seeds presented by the Department of Agriculture, Gaziantep. Received Mar. 30, 1953.

206497. *PISTACIA KHINJUK* Stocks.

206498. *PISTACIA TEREBINTHUS* L.

206499 to 206503. *CITRUS SINENSIS* (L.) Osbeck. Rutaceae.

**Orange.**

From France. Seeds presented by F. A. Motz, American Embassy, Paris. Received Mar. 30, 1953.

206499. *Fina Obal.*

206502. *Sanguineli Negra.*

206500. *Mintera.*

206503. *Inglera Obal.*

206501. *Sanguineli Eneamarda.*

206504. *FICUS SYCOMORUS* L. Moraceae.

**Fig.**

From Israel. Cuttings presented by the Mehardrin Company Citrus Plantation, Sharon District. Received Mar. 30, 1953.

206505. *TRITICUM AESTIVUM* L. Poaceae.

**Common wheat.**

From Argentina. Seeds presented by the Instituto de Fitotecnica, Buenos Aires. Received Mar. 30, 1953.

*Linea G × Reliance 52.1782.*

206506 to 206510. *LUPINUS MUTABILIS* Sweet. Fabaceae.

**South American lupine.**

From Peru. Seeds presented by the Department of Arboriculture, Tingo Maria. Received Mar. 30, 1953.

206506. No. 1. Lemaybamba (Chachapoyas-Amazonas).

206507. No. 2. Fundo Ronquillo, Departamento de Cajamarca.

206508. No. 3. San Jerónimo, Cuzco.

206509. No. 4. San Jerónimo, Cuzco.

206510. No. 5. San Jerónimo, Cuzco.

**206511 to 206514.**

From the Union of South Africa. Collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Mar. 30, 1953.

**206511. BRUNSVIGIA sp. Amaryllidaceae.**

No. 1897. In grassveld near Howick Falls, Natal. Feb. 20, 1953. (Seeds.)

**206512. DIOSCOREA COTINIFOLIA Kunth. Dioscoreaceae.**

No. 1901. Near Pietermaritzburg, Natal. Feb. 22, 1953. (Roots.)

**206513. HAEMANTHUS PUNICEUS L. Amaryllidaceae.**

No. 1900. Near Durban, Natal. Feb. 21, 1953. (Fruits and roots.)

**206514. HAEMANTHUS sp.**

No. 1904. Near Pietermaritzburg, Natal. Feb. 22, 1953. (Bulb.)

**206515. RICINUS COMMUNIS L. Euphorbiaceae. Castorbean.**

From Jamaica. Seeds presented by Dudley G. Coleman, Kingston. Received Mar. 30, 1953.

**206516 to 206528.**

From Greece. Seeds collected by the Extension Field Trainers, MSA Mission to Greece, Athens. Received Mar. 30, 1953.

**206516 to 206518. CITRULLUS VULGARIS Schrad. Cucurbitaceae.**

**Watermelon.**

206516. No. 7. Crete.

206517. No. 8. Crete.

206518. No. 9. Argos.

**206519. CUCUMIS MELO L. Cucurbitaceae.**

**Muskmelon.**

No. 6. Argos Plain.

**206520. CUCURBITA MOSCHATA Duchesne. Cucurbitaceae.**

**Cushaw.**

No. 10. Kifisia.

**206521. LUPINUS ALBUS L. Fabaceae.**

No. 4. Rodavoni.

**206522. PRUNUS ARMENIACA L. Amygdalaceae.**

**Apricot.**

No. 3. Sparta.

**206523. PYRUS sp. Malaceae.**

No. 1. Mountain pass north of Argos.

**206524. PYRUS sp.**

No. 2. Kalamata.

**206525. ROSA sp. Rosaceae.**

No. 5. Sparta.

**206526 to 206528. CUCUMIS MELO L. Cucurbitaceae.**

**Muskmelon.**

206526. No. 1. Collected in central Greece by Stuart C. Bell.

206527. No. 2. Collected by B. E. Grant from superior varieties.

206528. (No special data.)

**206529 to 206532. DIOSCOREA spp. Dioscoreaceae.**

From the Union of South Africa. Crowns presented by Scherag, Ltd., Johannesburg. Received Mar. 31, 1953.

**206529** DIOSCOREA sp.

No. 27M.

**206530.** DIOSCOREA sp.

No. 28F.

**206531.** DIOSCOREA sp.

No. 28M.

**206532.** DIOSCOREA sp.

No. 30.

**206533 to 206537.**

From Guatemala. Collected by H. S. Gentry, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Mar. 31, 1953.

**206533.** AGAVE sp. Amaryllidaceae.

No. 12549. Near Huehuetanango. Mar. 15, 1953. (Plants.)

**206534.** DIOSCOREA sp. Dioscoreaceae.

No. 12542. Twenty km. south of Cuyotenango, Suchitepequez. Mar. 12, 1953. (Roots.)

**206535.** DIOSCOREA sp.

No. 12543. *Sarsaparilla*. Thirty km. southwest of Cuyotenango. Mar. 12, 1953. (Roots.)

**206536.** DIOSCOREA FLORIBUNDA Mart. & Gal.

No. 12546. Twenty km. north of San Sebastián, Retalhuleu. Mar. 13, 1953. (Roots.)

**206537.** DIOSCOREA sp.

No. 12548. Near Finca San Rafael Panán, Suchitepequez. Mar. 14, 1953. (Roots.)

**206538 to 206542.**

From Italy. Cuttings presented by E. Carlo Branzanti, Ravenna. Received Mar. 31, 1953.

**206538 to 206541.** PRUNUS PERSICA (L.) Batsch. Amygdalaceae. **Peach.**

**206538.** *Giallaoi Piangipane*.

**206539.** *Morettini 1*. White fleshed.

**206540.** *Morettini 1/14*. Derived from *J. H. Hale* × *Triumph*.

**206541.** *Morettini 5/22*. Derived from *J. H. Hale* × *Triumph*.

**206542.** MALUS SYLVESTRIS Mill. Malaceae.

**Apple.**

*Abbondanza*.

**206543. ESENBECKIA FLAVA T. S. Brandeg. Rutaceae.**

From Mexico. Seeds collected by H. S. Gentry, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Mar. 31, 1953.

No. 12343. Rancho Burreo, Baja California.

## 206544 to 206598.

From Greece. Seeds presented by Marvin Klemme, Range Management Specialist, MSA, and Panos Margaropoulos, Forest Specialist, Greek Ministry of Agriculture, Athens. Received Mar. 31, 1953.

206544. *ASTRAGALUS* sp. Fabaceae.

206545. *BRACHYPODIUM PINNATUM* (L.) Beauv. Poaceae.

206546. *BRACHYPODIUM* sp.

No. 1.

206547. *BRACHYPODIUM* sp.

No. 2.

206548. *BRACHYPODIUM* sp.

No. 3.

206549. *BRACHYPODIUM* sp.

No. 4.

206550. *BROMUS* sp. Poaceae.

No. 1.

206551. *BROMUS ARVENSIS* L.

No. 2.

206552. *COLUTEA ARBORESCENS* L. Fabaceae.

206553. *CYNODON DACTYLON* (L.) Pers. Poaceae.

Bermuda grass.

206554. *CYNOSURUS* sp. Poaceae.

No. 1.

206555. *CYNOSURUS* sp.

No. 2.

206556. *DACTYLIS GLOMERATA* L. Poaceae.

Orchard grass.

206557. *DACTYLIS* sp.

206558. *DORYCNIUM* sp. Fabaceae.

206559. *FESTUCA OVINA* L. Poaceae.

Sheep fescue.

206560. *FESTUCA RUBRA* var. *HETEROPHYLLA* (Lam.) Mutel.

206561. *FESTUCA* sp.

No. 1.

206562. *FESTUCA* sp.

No. 2.

206563. *FESTUCA RUBRA* L.

Red fescue.

No. 3.

206564. *FESTUCA* sp.

No. 4.

206565. *HORDEUM* sp. Poaceae.

Barley.

No. 1.

206566. *HORDEUM* sp.

No. 2.

206567. *LOLIUM* sp. Poaceae.

206568. *LYCHNIS* sp. Silenaceae.



**206544 to 206598—Continued**

- 206569 and 206570. *MEDICAGO ARBOREA* L. Fabaceae. Tree alfalfa.  
 206569. No. 1.  
 206570. No. 2.
206571. *MEDICAGO HISPIDA* var. *DENTICULATA* (Willd.) Urban. Burclover.  
 206572 to 206576. *MEDICAGO SATIVA* L. Alfalfa.  
 206572. No. 1. 206575. No. 4.  
 206573. No. 2. 206576. No. 5.  
 206574. No. 3.
206577. *ONOBRYCHIS* sp. Fabaceae.
- 206578 to 206581. *ORYZOPSIS MILIACEA* (L.) Benth. & Hook.  
 206578. No. 1. 206580. No. 3.  
 206579. No. 2. 206581. No. 4.
206582. *ORYZOPSIS* sp.  
 No. 5.
206583. *ORYZOPSIS MILIACEA* (L.) Benth. & Hook.  
 No. 6.
206584. *ORYZOPSIS* sp.  
 No. 7.
206585. *ORYZOPSIS* sp.  
 No. 8.
206586. *ORYZOPSIS* sp.  
 No. 9.
206587. *ORYZOPSIS* sp.  
 No. 10.
206588. *PHLEUM* sp. Poaceae.
- 206589 and 206590. *POA BULBOSA* L. Poaceae.  
 206589. No. 1.  
 206590. No. 2.
206591. *POA* sp.
206592. *SESLERIA* sp. Poaceae.  
 No. 1.
206593. *SESLERIA* sp.  
 No. 2.
206594. *STIPA* sp. Poaceae.
206595. *TRIFOLIUM ECHINATUM* Bieb. Fabaceae.
206596. *TRIFOLIUM HYBRIDUM* L. Alsike clover.  
 206597. *TRIFOLIUM REPENS* L. White clover.  
 206598. *VICIA SATIVA* L. Fabaceae. Common vetch.
206599. *NICOTIANA TABACUM* L. Solanaceae. Common tobacco.
- From Mauritius. Seeds presented by the Department of Agriculture, Reduit.  
 Received Mar. 31, 1953.  
*Amarello Pointed Leaf.*

**206600 to 206610. PYRUS COMMUNIS L. Malaceae. Common pear.**

From France. Scions presented by Georges Delbard, Paris. Received Mar. 31, 1953.

206600. *Antoine Defosse.*

206606. *Madame Bonnefond.*

206601. *Belle Angevine.*

206607. *Santa Clause.*

206602. *Belle Guerandaise.*

206608. *President Fortier.*

206603. *Beurre de Mortillet.*

206609. (No data.)

206604. *Fortune Boisselot.*

206610. (No data.)

206605. *Helene Gregoire.*

**206611. CITRUS VOLKAMERIANA Pasq. Rutaceae.**

From Italy. Seeds presented by L. J. Klotz, Acireale Experiment Station, Rome. Received Apr. 1, 1953.

**206612. GOSSYPIUM TOMENTOSUM Nutt. Malvaceae.**

From Hawaii. Seeds presented by Paul A. Fryxell, Agricultural Experiment Station, State College, N. Mex. Received Apr. 6, 1953.

**206613 to 206616. RHODODENDRON spp. Ericaceae.**

From Turkey. Seeds collected by Baki Kasapligil, University of Ankara, Ankara. Received Apr. 6, 1953.

206613. *RHODODENDRON KEISKEI* Miquel.

No. 4310.

206614 to 206616. *RHODODENDRON PONTICUM* L.

206614. No. 4308. Karabuk.

206615. No. 4309. Near Bolu.

206616. No. 4312. Near Artvin.

**206617 to 206780.**

From Turkey. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Apr. 1, 1953.

All seeds collected in 1952.

206617. *AGROPYRON* sp. Poaceae.

No. 599. Near Horum, Erzurum. Sept. 17.

206618. *AGROPYRON INTERMEDIUM* (Host) Beauv.

No. 612. Near Karaorgan, Kars. Sept. 17.

206619. *BRACHYPODIUM SYLVATICUM* (Huds.) Beauv. Poaceae.

No. 757. Near Samsun. Sept. 29. Annual.

206620. *AGROPYRON* sp. Poaceae.

No. 765. Twenty-five km. south of Samsun. Sept. 29. Perennial.

206621. *AGROPYRON REPENS* (L.) Beauv.

Quackgrass.

No. 786. Ankara. Oct. 2.

206622 to 206624. *AGROPYRON ELONGATUM* (Host) Beauv.

Grass.

206622. No. 907. Near Sivrihisar, Eskisehir. Oct. 9.

206623. No. 1047. North of Burhaniye, Mugla. Oct. 15.

206624. No. 1169. Between Istanbul and Corlu. Oct. 25.

206625. *AGROPYRON TRICHOPHORUM* (Link) Richt.

No. 634. Near Mezraa, Kars. Sept. 19.

## 206617 to 206780—Continued

- 206626 to 206628. *AGROSTIS ALBA* L. Poaceae. Redtop.  
 206626. No. 708. Trabzon. Sept. 23.  
 206627. No. 767. Twenty-five km. south of Samsun. Sept. 29. Perennial.  
 206628. No. 1146. Between Akhisar and Soma, Manisa. Oct. 22. Perennial.  
 206629. *AGROSTIS* sp.  
 No. 1150. Istanbul. Oct. 24. Perennial.  
 206630 and 206631. *AGROSTIS ALBA* L. Redtop.  
 206630. No. 1153. Istanbul. Oct. 24. Perennial.  
 206631. No. 1164. Istanbul. Oct. 24. Perennial.  
 206632. *ALOPECURUS* sp. Poaceae.  
 No. 941. Harasi Farm, Eskisehir. Oct. 10.  
 206633. *AGROPYRON REPENS* (L.) Beauv. Poaceae. Quackgrass.  
 No. 624. Between Kars and Kagizman. Sept. 18.  
 206634. *ANDROPOGON* sp. Poaceae.  
 No. 797. Kurtbogazi, Ankara. Oct. 5.  
 206635. *ANDROPOGON* sp.  
 No. 1048. North of Kemer, Mugla. Oct. 15.  
 206636. *ANDROPOGON* sp.  
 No. 1049. North of Kemer, Mugla. Oct. 15.  
 206637. *ANDROPOGON* sp.  
 No. 1074. Karacali, Mugla. Oct. 16.  
 206638. *ANDROPOGON* sp.  
 No. 1141. Between Bornova and Manisa, Izmir. Oct. 22. Perennial.  
 206639. *ANDROPOGON* sp.  
 No. 1151. Istanbul. Oct. 24. Perennial.  
 206640. *ANDROPOGON* sp.  
 No. 1170. Between Istanbul and Corlu. Oct. 25. Perennial.  
 206641. *ARISTIDA* sp. Poaceae.  
 No. 1059. West of Fethiye, Mugla. Oct. 15. Perennial.  
 206642. *ASPHODELINE* sp. Liliaceae.  
 No. 1121. Izmir. Oct. 21.  
 206643. *BRACHYPODIUM* sp. Poaceae.  
 No. 665. Near Sarikamis, Kars. Sept. 20.  
 206644. *BROMUS* sp. Poaceae.  
 No. 604. Near Karaorgan, Kars. Sept. 17.  
 206645. *BROMUS ERECTUS* Huds.  
 No. 641. Near Susuz, Kars. Sept. 19.  
 206646. *BROMUS* sp.  
 No. 675. Zigana Pass, between Torul and Macka. Sept. 21. Perennial.

## 206617 to 206780—Continued

206647. *BROMUS* sp.  
No. 1044. North of Kemer, Mugla. Oct. 15. Annual.
206648. *BROMUS* sp.  
No. 1122. Bornova Vocational Agriculture School, Izmir. Oct. 20. Annual.
206649. *BROMUS* sp.  
No. 1123. Izmir. Oct. 20. Annual.
206650. *BRACHYPODIUM PINNATUM* (L.) Beauv. Poaceae.  
No. 1145. Between Akhisar and Soma, Manisa. Oct. 22. Perennial.
206651. *BROMUS* sp. Poaceae.  
No. 1152. Istanbul. Oct. 24. Perennial.
206652. *BROMUS* sp.  
No. 1162. Istanbul. Oct. 24. Perennial.
206653. *BROMUS* sp.  
No. 1175. Heybali Ada Island, Istanbul. Oct. 26. Annual.
206654. *CHRYSOPOGON* sp. Poaceae.  
No. 966. Sixteen km. south of Dinar, Afyon. Oct. 11. Perennial.
206655. *CHRYSOPOGON* sp.  
No. 1149. Istanbul. Oct. 24. Perennial.
206656. *CISTUS LAURIFOLIUS* L. Cistaceae.  
No. 959. Karaca, 31 km. south of Afyon. Oct. 11.
206657. *CYNODON DACTYLON* (L.) Pers. Poaceae. Bermuda grass.  
No. 1199. Ankara. Oct. 31.
- 206658 and 206659. *CYNOSURUS ECHINATUS* L. Poaceae.  
206658. No. 677. Zigana Pass, between Torul and Macka. Sept. 21.  
206659. No. 1030. Guggeli, southwest of Elmalı. Oct. 15. Annual.
206660. *CYNOSURUS* sp.  
No. 670. Zigana Pass, between Torul and Macka. Sept. 21. Perennial.
206661. *CYNOSURUS* sp.  
No. 760. Twenty-five km. south of Samsun. Sept. 29.
206662. *CYNOSURUS* sp.  
No. 1099. Izmir. Oct. 20. Annual.
206663. *CYNOSURUS* sp.  
No. 1155. Istanbul. Oct. 24. Perennial.
206664. *DANTHONIA* sp. Poaceae.  
No. 664. Near Sarikamis, Kars. Sept. 20. Perennial.
- 206665 to 206668. *DACTYLIS GLOMERATA* L. Poaceae. Orchard grass.  
206665. No. 974. Antalya. Oct. 12.  
206666. No. 1033. Guggeli, southwest of Elmalı. Oct. 15.  
206667. No. 1056. Between Kemer and Fethiye, Mugla. Oct. 15.  
206668. No. 1100. Izmir. Oct. 20.



## 206617 to 206780—Continued

206669. *ELYMUS CAPUT-MEDUSAE* L. Poaceae. Grass  
No. 1127. Bornova, Izmir. Oct. 21. Annual.
206670. *ELYMUS* sp.  
No. 917. Eskisehir. Oct. 9.
206671. *EPILOBIUM* sp. Onagraceae.  
No. 225a. Near Kayseri. Aug. 31.
206672. *ERAGROSTIS* sp. Poaceae.  
No. 626. Between Kars and Kagizman. Sept. 18.
206673. *ERAGROSTIS CURVULA* (Schrud.) Nees. Weeping lovegrass.  
No. 1046. North of Kemer, Mugla. Oct. 15. Annual.
206674. *ERAGROSTIS* sp.  
No. 784. Ankara. Oct. 3.
206675. *FESTUCA* sp. Poaceae.  
No. 681. Zigana Pass, between Torul and Macka. Sept. 21.
206676. *FESTUCA* sp.  
No. 762. Twenty-five km. south of Samsun. Sept. 29.
206677. *FESTUCA* sp.  
No. 764. Twenty-five km. south of Samsun. Sept. 29.
206678. *BROMUS INERMIS* Leyss. Poaceae.  
No. 781. Ankara. Oct. 3.
206679. *FESTUCA* sp. Poaceae.  
No. 796. Kurtbogazi, Ankara. Oct. 5.
206680. *POA* sp. Poaceae.  
No. 824. Lake Aband, Bolu. Oct. 6. Perennial.
206681. *FESTUCA* sp. Poaceae.  
No. 1050. North of Kemer, Mugla. Oct. 15. Perennial.
206682. *BRACHYPODIUM PINNATUM* (L.) Beauv. Poaceae.  
No. 1066. Near Karacali, Mugla. Oct. 16. Perennial.
206683. *GASTRIDIVM VENTRICOSUM* (Gouan) Schinz & Thell. Poaceae.  
No. 1128. Bornova, Izmir. Oct. 21. Annual.
206684. *ELYMUS JUNCEUS* Fisch. Poaceae.  
No. 782. Ankara. Oct. 2.
206685. *HORDEUM* sp. Poaceae. Barley.  
No. 819. Lake Aband, Bolu. Oct. 6. Perennial.
206686. *HORDEUM* sp.  
No. 1121. Bornova Vocational Agriculture School, Izmir. Oct. 20. Annual.
206687. *IRIS* sp. Iridaceae.  
No. 940. Harisi Farm, Eskisehir. Oct. 10.
206688. *KOELERIA* sp. Poaceae.  
No. 632. Near Mezraa, Kars. Sept. 19.
206689. *LATHYRUS PRATENSIS* L. Fabaceae. Yellow-vetch.  
No. 659. Near Sarikamis, Kars. Sept. 20.

## 206617 to 206780—Continued

206690. *LINUM USITATISSIMUM* L. Linaceae. Flax.  
No. 1014. Antalya. Oct. 13.
206691. *LOLIUM TEMULENTUM* L. Poaceae.  
No. 682. Zigana Pass, between Torul and Macka. Sept. 21.
- 206692 to 206694. *MEDICAGO ARABICA* (L.) All. Fabaceae.  
206692. No. 1010. Selimiye, Antalya. Oct. 13. Annual.  
206693. No. 1013. Selimiye, Antalya. Oct. 13. Annual.  
206694. No. 1096. Afyon. Oct. 19. Annual.
206695. *MEDICAGO HISPIDA* Gaertn. Burclover.  
No. 1143. Between Akhisar and Manisa. Oct. 22. Annual.
- 206696 to 206698. *MEDICAGO SATIVA* L. Alfalfa.  
206696. No. 289. Pasa Fabricasi, Sivas. Sept. 3.  
206697. No. 1023. Virren, Antalya. Oct. 14.  
206698. No. 1042. Seli, Mugla. Oct. 15.
206699. *MELICA* sp. Poaceae.  
No. 607. Near Karaorgan, Kars. Sept. 17. Perennial.
206700. *MELICA* sp.  
No. 645. Near Kirkpman, Kars. Sept. 19.
206701. *MELILOTUS ALBA* Desr. Fabaceae. White sweetclover.  
No. 904. Near Sivrihisar, Eskisehir. Oct. 9.
206702. *ONOBRYCHIS CAPUT-GALLI* (L.) Lam. Fabaceae.  
No. 1070. Near Karacali, Mugla. Oct. 16. Annual.
206703. *ONOBRYCHIS* sp.  
No. 630. Near Mezraa, Kars. Sept. 19.
206704. *ORYZOPSIS* sp. Poaceae.  
No. 980. Antalya. Oct. 12. Perennial.
206705. *ORYZOPSIS* sp.  
No. 1031. Near Gugkeli, southwest of Elmali, Antalya. Oct. 15. Perennial.
206706. *ORYZOPSIS* sp.  
No. 1073. Mugla. Oct. 16.
206707. *ORYZOPSIS* sp.  
No. 1122. Izmir. Oct. 21. Perennial.
206708. *ORYZOPSIS MILIACEA* (L.) Benth. & Hook.  
No. 1126. Bornova, Izmir. Oct. 21. Perennial.
206709. *PASPALUM* sp. Poaceae.  
No. 750. Giresun. Sept. 27.
206710. *PHALARIS TUBEROSA* L. Poaceae. Large canary grass.  
No. 791. Ankara. Oct. 3.
206711. *PHLEUM SUBULATUM* (Savi) Aschers. & Graebn. Poaceae.  
No. 968. Antalya. Oct. 12. Annual.
206712. *PHALARIS TRUNCATA* Guss. Poaceae.  
No. 1171. Istanbul. Oct. 25. Perennial.

## 206617 to 206780—Continued

206713. *PHLEUM PRATENSE* L. Poaceae. Timothy.  
No. 648. Near Kirkpman, Kars. Sept. 19.
206714. *PHLEUM PHLEOIDES* (L.) Karst.  
No. 615. Near Karaorgan, Kars. Sept. 17. Perennial.
206715. *PHLEUM* sp.  
No. 707. Near Trabzon. Sept. 23. Perennial.
206716. *PHLEUM* sp.  
No. 957. Karaca, Afyon. Oct. 11. Annual.
- 206717 and 206718. *PHLEUM PRATENSE* L. Timothy.  
206717. No. 629. Near Mezraa, Kars. Sept. 19. Perennial.  
206718. No. 1140. Between Bornova and Manisa, Izmir. Oct. 22. Perennial.
206719. *PHLEUM* sp.  
No. 1156. Istanbul. Oct. 24. Perennial.
206720. *POA BULBOSA* L. Poaceae.  
No. 1045. North of Kemer, Mugla. Oct. 15. Annual.
206721. *POA PRATENSIS* L. Kentucky bluegrass.  
No. 611. Near Karaorgan, Kars. Sept. 17.
206722. *POA* sp.  
No. 627. Between Kars and Kagizman. Sept. 17. Perennial.
206723. *POA* sp.  
No. 662. Near Sarikamis, Kars. Sept. 20. Perennial.
206724. *POA* sp.  
No. 671. Zigana Pass, between Torul and Macka. Sept. 21. Perennial.
206725. *POA* sp.  
No. 672. Zigana Pass, between Torul and Macka. Sept. 21.
206726. *POA NEMORALIS* L.  
No. 673. Zigana Pass, between Torul and Macka. Sept. 21. Perennial.
206727. *POA* sp.  
No. 676. Zigana Pass, between Torul and Macka. Sept. 21. Perennial.
206728. *POA* sp.  
No. 106. Trabzon. Sept. 23. Perennial.
206729. *POA* sp.  
No. 765. Sixteen km. south of Dinar, Afyon. Oct. 11.
206730. *POA* sp.  
No. 766. Twenty-five km. south of Samsun. Sept. 29.
206731. *POA NEMORALIS* L.  
No. 768. Twenty-five km. south of Samsun. Sept. 29. Perennial.
206732. *POA* sp.  
No. 798. Near Kurtbogazi, Ankara. Oct. 5.
206733. *POA* sp.  
No. 821. Lake Aband, Bolu. Oct. 6. Perennial.

## 206617 to 206780—Continued

206734. *POA PRATENSIS* L.

Kentucky bluegrass.

No. 923. Eskisehir Teachers School. Oct. 10. Perennial.

206735. *POA* sp.

No. 960. Karaga, Afyon. Oct. 11. Perennial.

206736. *POA* sp.

No. 1035. Near Gugkeli, southwest of Elmali, Antalya. Oct. 15. Annual.

206737. *POA* sp.

No. 1043. North of Kemer, Mugla. Oct. 15. Perennial.

206738. *POA* sp.

No. 1085. North of Mugla. Oct. 17. Annual.

206739. *POA* sp.

No. 1098. Izmir. Oct. 20. Perennial.

206740. *POA* sp.

No. 1159. Istanbul. Oct. 24. Perennial.

206741. *POA* sp.

No. 1176. Istanbul. Oct. 26. Annual.

206742. *GASTRIDIDIUM SCABRUM* Presl. Poaceae.

No. 1125. Bornova, Izmir. Oct. 21.

206743 and 206744. *PRUNUS AVIUM* L. Amygdalaceae.

Sweet cherry.

206743. No. 1195. Near Bolu. Aug. 4.

206744. No. 1196. Near Bolu. Aug. 4.

206745. *PRUNUS CERASUS* L.

Sour cherry.

No. 1194. Biraze Mt., Bolu. Aug. 4.

206746. *PHACELURUS DIGITATUS* (Sibth. & Sm.) Griseb. Poaceae.

No. 1064. Near Karacali, Mugla. Oct. 16. Perennial.

206747. *SETARIA GLAUCA* (L.) Beauv. Poaceae.

No. 983. Antalya. Oct. 12.

206748. *SETARIA VERTICILLATA* (L.) Beauv.

No. 1097. Izmir. Oct. 20.

206749 to 206751. *SORGHUM VULGARE* Pers. Poaceae.

206749. No. 787. Ankara. Oct. 3.

206750. No. 905. Near Sivrihisar, Eskisehir. Oct. 9.

206751. No. 921. Eskisehir. Oct. 10.

206752. *SORGHUM* sp.

No. 1055. Kemer, Mugla. Oct. 15. Perennial.

206753. *SPINACIA SPINOSA* Moench. Chenopodiaceae.

No. 1133. Bornova Vocational Agricultural School, Izmir. Oct. 21.

206754. *STIPA* sp. Poaceae.

No. 1036. Gugkeli, southwest of Elmali, Antalya. Oct. 15. Annual.

206755. *STIPA* sp.

No. 1037. Gugkeli, southwest of Elmali, Antalya. Oct. 15. Perennial.



## 206617 to 206780—Continued

206756. *STYRAX OFFICINALIS* L. *Styracaceae*. Storax.  
 No. 1079. Between Koycegiz and Mugla. Oct. 17.
- 206757 to 206759. *TRIFOLIUM ANGUSTIFOLIUM* L. *Fabaceae*.  
 206757. No. 1057. Between Kemer and Fethiye. Oct. 15. Annual.  
 206758. No. 1093. Near Aydin. Oct. 19. Annual.  
 206759. No. 1123. Bornova, Izmir. Oct. 21. Annual.
206760. *TRIFOLIUM ARVENSE* L. Rabbit-foot clover.  
 No. 1058. Between Kemer and Fethiye. Oct. 15. Annual.
- 206761 and 206762. *TRIFOLIUM HIRTUM* All.  
 206761. No. 982. Antalya. Oct. 12. Annual.  
 206762. No. 1071. Near Karacali, Mugla. Oct. 16.
206763. *TRIFOLIUM HYBRIDUM* L. Alsike clover.  
 No. 1168. Istanbul. Oct. 24. Perennial.
206764. *TRIFOLIUM LAPPACEUM* L. Lappa clover.  
 No. 1142. Between Bornova and Manisa, Izmir. Oct. 22. Annual.
- 206765 and 206766. *TRIFOLIUM PRATENSE* L. Red clover.  
 206765. No. 1072. Near Karacali, Mugla. Oct. 16. Annual.  
 206766. No. 1092. Near Aydin. Oct. 19. Annual.
206767. *TRIFOLIUM* sp.  
 No. 1007. Selimiye, Antalya. Oct. 13.
206768. *TRIFOLIUM CAMPESTRE* Schreb.  
 No. 1008. Selimiye, Antalya. Oct. 13. Annual.
206769. *TRIFOLIUM NIGRESCENS* Viv.  
 No. 1009. Selimiye, Antalya. Oct. 13. Annual.
206770. *TRIFOLIUM* sp.  
 No. 1011. Selimiye, Antalya. Oct. 13. Annual.
206771. *TRIFOLIUM RADIOSUM* Wahl.  
 No. 1012. Selimiye, Antalya. Oct. 13. Annual.
206772. *TRIFOLIUM RESUPINATUM* L. Persian clover.  
 No. 1069. Near Karacali, Mugla. Oct. 16. Annual.
206773. *TRIFOLIUM* sp.  
 No. 1141. Between Akhisar and Soma, Manisa. Oct. 22. Annual.
206774. *TRIFOLIUM* sp.  
 No. 1172. Heybali Ada Island, Istanbul. Oct. 26. Annual.
206775. *TRIGONELLA KOTSCHYI* Boiss. *Fabaceae*.  
 No. 177. Kayseri bazaar. Aug. 20.
206776. *TRisetum* sp. *Poaceae*.  
 No. 663. Near Sarikamis, Kars. Sept. 20. Perennial.
206777. *TRisetum* sp.  
 No. 1174. Heybali Ada Island, Istanbul. Oct. 26.
206778. *URGINEA MARITIMA* (L.) Baker. *Liliaceae*. Sea-onion.  
 No. 1019. Antalya. Oct. 14.

**206617 to 206780—Continued**206779. *VICIA SATIVA* L. Fabaceae.

Common vetch.

No. 594. Near Horum, Erzurum. Sept. 17.

206780. *VICIA VILLOSA* Roth.

Hairy vetch.

No. 1028. Taken from wheat at Elmila, Antalya. Oct. 14.

**206781 to 206875. PISUM SATIVUM** L. Fabaceae.

Pea.

From Iowa. Plants growing at the Plant Introduction Station, Ames. Numbered Apr. 2, 1953.

A collection of pea varieties from the University of Wisconsin, originally developed by the late Daniel N. Shoemaker. The letter "S" designates Shoemaker numbers.

206781. S-509. *Alaska*.206782. S-511. *Sutton's Earliest Blue*.206783. S-518. *Saxa*.206784. S-521. *Ideal*.206785. S-529. *May Queen*.206786. S-531. *Sutton's Delicacy*.206787. S-536. *Lord Leicester*.206788. S-540. *Telephone*.206789. S-541. *Glucas' Meridian*.206790. S-543. *Roides Moelles*.206791. S-545. *Sutton's Super Pea, The V.C.*206792. S-547. *Knight's Franco-British*.206793. S-550. *Webb's Stourbridge Marrow*.206794. S-557. *Prince Edward*.206795. S-566. *Carters Battleship*.206796. S-571. *Old England (Kelway)*.206797. S-579. *Serpette Cent Pour Un Grain Blanc*.206798. S-582. *Leveque Grain Blanc Longue Cosse*.206799. S-592. *Sutton's Dwarf Defiance*.206800. S-593. *The Lincoln*.206801. S-594. *Dwarf Champion*.206802. S-596. *Juno*.206803. S-600. *Ormskirk Perfection*.206804. S-602. *Sutton's Phenomenon*.206805. S-603. *Nuttings Barnet Hero*.206806. S-609. *Sutton's King Edward*.206807. S-610. *Sutton's Best of All*.206808. S-615. *Arcadian*.206809. S-616. *Chancelot*.206810. S-620. *Rice Nain Blanc Hatif*.206811. S-621. *Shropshire Hero*.206812. S-624. *Incomparable*.206813. S-626. *Censor*.

## 206781 to 206875—Continued

206814. S-637. *Mayor of Leicester.*  
206815. S-640. *The Victor.*  
206816. S-642. *Glory of Devon.*  
206817. S-643. *Veitch's Perfection.*  
206818. S-645. *The Marquis.*  
206819. S-646. *Sharpe's Liberty.*  
206820. S-647. *Daniels' Distinction.*  
206821. S-654. *Tres Nain Centurier.*  
206822. S-655. *d'Hollandia.*  
206823. S-657. *Timperley Wonder.*  
206824. S-658. *Sutton's Harbinger.*  
206825. S-659. *William Hurst.*  
206826. S-662. *British Wonder.*  
206827. S-663. *Lancashire Lad.*  
206828. S-666. *Serpette Nain Blanc.* (Small seeds.)  
206829. S-668. *English Wonder.*  
206830. S-669. *London Wonder.*  
206831. S-670. *Sherwood.*  
206832. S-672. *Forham Favorite.*  
206833. S-673. *Brown's Poulwell.*  
206834. S-674. *Champion of England.*  
206835. S-676. *Carters International.*  
206836. S-683. *A Rames Ride de Knight.*  
206837. S-689. *Ne Plus Ultra.*  
206838. S-690. *Everbearing.*  
206839. S-692. *Fairbeard's Nonpareil.*  
206840. S-695. *Canning.*  
206841. S-708. *Daniels' Midsummer Marrow.*  
206842. S-710. *Prino Small Podded.*  
206843. S-711. *Rekord.*  
206844. S-716. *Ruhm von Quedlinburg.*  
206845. S-718. *Ruhm von Cassel.*  
206846. S-720. *Serpette Vert.*  
206847. S-723. *Riesen Schnabel.*  
206848. S-724. *Quarante Deux de Sarcelle.*  
206849. S-726. *Del Imperatore.*  
206850. S-732. *Victoria.*  
206851. S-735. *Mooie Lange Krombek, Beste Opvolgers.*  
206852. S-738. *Kroonersten, Groote Groene.*  
206853. S-741. *Krombek Beste Opvolgers.*  
206854. S-742. *Groote Kaapsche Groene.*  
206855. S-745. *Schnabel-schalerbsen Grün Bleibende Parisien.*

## 206781 to 206875—Continued

206856. S-746. *Flamische Riesen Schnabel*.  
 206857. S-751. *Serpette Ameliore a Longue Cosse*.  
 206858. S-766. *Gem of the Season*.  
 206859. S-768. *Drummond's Early Multiple*.  
 206860. S-775. *Burpee's Profusion*.  
 206861. S-778. *Carters Market Gardener*.  
 206862. S-780. *Sutton's Early Giant*.  
 206863. S-781. *Buonissimo d'Ingegnoli*.  
 206864. S-782. *Capucijner: Lange Witte*.  
 206865. S-785. *Copenhagen Market*.  
 206866. S-792. *Laxton's Omega*.  
 206867. S-795. *Rentpayer*.  
 206868. S-796. *Wonder Marrowfat*.  
 206869. S-802. *Clibrans' Abundant*.  
 206870. S-806. *Nain Ride de Knight Blanc Sucre*.  
 206871. S-807. *Triumphant*.  
 206872. S-808. *James Kelway*.  
 206873. S-848. *Giant Butter*.  
 206874. S-955. *Swedish—Monte Vista, Colo.*  
 206875. S-983. *Ho Laan Tau*. (Round, yellow.)

## 206876. OLEA EUROPAEA L. Oleaceae.

Olive.

From Pakistan. Seeds presented by the Forest Department, Baluchistan, through the American Embassy, Karachi. Received Apr. 2, 1953.

## 206877. FICUS sp. Moraceae.

Fig.

From Turkey. Cuttings presented by L. L. Scranton, American Embassy, Ankara. Received Apr. 2, 1953.

## 206878 to 206928.

From Turkey. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Apr. 2, 1953.

Seeds collected in 1952.

## 206878. AGROPYRON REPENS (L.) Beauv. Poaceae.

Quackgrass.

No. 824. Eskisehir. Oct. 10. Perennial.

## 206879. AGROSTIS SEMIVERTICILLATA (Forsk.) C. Chr. Poaceae.

No. 363. Ulas, Sivas. Sept. 5. Perennial.

## 206880. AGROSTIS ALBA L.

Redtop.

No. 661. Near Sarikamis, Kars. Sept. 20. Perennial.

## 206881. ANDROPOGON sp. Poaceae.

No. 906. Near Sivrihisar, Eskisehir. Oct. 9.

## 206882. ASTRAGALUS GLYCYPHYLLOS L. Fabaceae.

No. 654a. Near Sarikamis, Kars. Sept. 20. Perennial.

## 206883. CALAMAGROSTIS sp. Poaceae.

No. 660. Near Sarikamis, Kars. Sept. 20. Perennial.



## 206878 to 206928—Continued

206884. *CALAMAGROSTIS* sp.

No. 922. Eskisehir Teachers School. Oct. 10.

206885. *COLUTEA ORIENTALIS* Mill. Fabaceae.

No. 770. Near Havza, Samsun. Sept. 29.

206886. *CRYPSIS* sp. Poaceae.

No. 165. Forty-three km. northwest of Keyseri at Kizil River, Kayseri. Aug. 30.

206887. *DESCHAMPSIA* sp. Poaceae.

No. 666. Near Sarikamis, Kars. Sept. 20. Perennial.

206888. *EPHEDRA* sp. Gnetaceae.

No. 1006. Selimiye, Antalya. Oct. 13.

206889. *HYPARRHENIA HIRTA* (L.) Stapf. Poaceae.

No. 970. Antalya. Oct. 12.

206890. *HORDEUM BULBOSUM* L. Poaceae.

Grass.

No. 903. Near Sivrihisar, Eskisehir. Oct. 9.

206891. *LATHYRUS CICERA* L. Fabaceae.

No. 876. Denizli. Oct. 8.

206892. *LATHYRUS SATIVUS* L.

Bittervetch.

No. 862. Ankara University Agriculture Faculty Experiment Station. Oct. 8.

206893. *LATHYRUS DIGITATUS* (Bieb.) Fiori.

No. 585. Near Zagki, Erzurum. Sept. 14.

206894. *LOTUS ULIGINOSUS* Schkuhr. Fabaceae.

Big trefoil.

No. 658. Near Sarikamis, Kars. Sept. 20.

206895. *LOTUS ANGUSTISSIMUS* L.

No. 709. Trabzon. Sept. 23. Annual

206896. *LOTUS CORNICULATUS* L.

Birdsfoot trefoil.

No. 724. Near Macka, Trabzon. Sept. 24.

206897. *LOTUS* sp.

No. 753. Samsun. Sept. 28.

206898. *MEDICAGO HISPIDA* Gaertn. Fabaceae.

Burclover.

No. 1101. Izmir. Oct. 20. Annual.

206899. *MEDICAGO LUPULINA* L.

Black medic.

No. 56. Near Beynan, Ankara. Aug. 28.

206900. *MEDICAGO SATIVA* L.

Alfalfa.

No. 788. Ankara. Oct. 3.

206901. *TRIGONELLA CAERULEA* (L.) Ser. Fabaceae.

No. 936. Cay, Afyon. Oct. 10.

206902. *MEDICAGO* sp. Fabaceae.

No. 587. Near Dumlu, Erzurum. Sept. 14.

206903. *MEDICAGO SATIVA* L.

Alfalfa.

No. 722. Near Macka, Trabzon. Sept. 24.

## 206878 to 206928—Continued

206904. *ONOBRYCHIS* sp. Fabaceae.

No. 773. Near Havza, Samsun. Sept. 29.

206905. *ONOBRYCHIS* sp.

No. 858. Ankara University Experiment Station. Oct. 8.

206906. *ONOBRYCHIS* sp.

No. 873. Ankara University Experiment Station. Oct. 8.

206907. *ORYZOPSIS MILIACEA* (L.) Benth. & Hook. Poaceae.

No. 967. Antalya. Oct. 12. Perennial.

206908. *SETARIA GLAUCA* (L.) Beauv. Poaceae.

No. 977. Antalya. Oct. 12.

206909. *PHLEUM* sp. Poaceae.

No. 547. Kop Mountain, Gumusane. Sept. 12.

206910. *POA NEMORALIS* L.

No. 610. Near Karaorgan, Kars. Sept. 17.

206911. *Poa* sp.

No. 622. Between Kars and Kagizman. Sept. 18.

206912. *POA NEMORALIS* L.

No. 644. Near Kirkpman, Kars. Sept. 19.

206913. *LAGURUS OVATUS* L. Poaceae.

No. 987. Antalya. Oct. 12.

206914. *RUBUS* sp. Rosaceae.

No. 705. Trabzon. Sept. 23.

206915. *RUBUS* sp.

No. 955. Near Afyon. Oct. 11.

206916. *SORGHUM* sp. Poaceae.

No. 736. Trabzon. Sept. 25.

206917. *SORGHUM* sp.

No. 969. Antalya. Oct. 12.

206918. *STIPA* sp. Poaceae.

No. 964. South of Dinar, Afyon. Oct. 11. Perennial.

206919. *TRIFOLIUM FRAGIFERUM* L. Fabaceae. Strawberry clover.

No. 169. Kayseri. Aug. 30. Creeping perennial.

206920. *TRIFOLIUM RESUPINATUM* L. Persian clover.

No. 456. Near Elazig. Sept. 9.

206921. *TRIFOLIUM* sp.

No. 493. Near Pulumur, Tunceli. Sept. 10. Creeping perennial.

206922. *TRIFOLIUM* sp.

No. 588. Near Dumlu, Erzurum. Sept. 14. Perennial.

206923. *TRIFOLIUM OCHROLEUCON* Huds.

No. 655. Near Sarikamis, Kars. Sept. 20.

206924. *TRIFOLIUM PRATENSE* L. Red clover.

No. 711. Trabzon. Sept. 23.

## 206878 to 206928—Continued

206925. *TRIFOLIUM ECHINATUM* Bieb.

No. 935. Cay, Afyon. Oct. 10.

206926. *TRIFOLIUM NIGRESCENS* Viv.

No. 996. Antalya. Oct. 13. Annual.

206927. *VICIA NARBONENESIS* L. Fabaceae.

No. 857. Ankara University Experiment Station. Oct. 8.

206928. *VICIA TENUIFOLIA* Roth.

No. 657. Near Sarikamis, Kars. Sept. 20.

206929. *MEDICAGO OBSCURA* var. *HELIX* (Willd.) Urb. Fabaceae.

From Portugal. Seeds presented by the Estação Agronómica Nacional, Sacavém. Received Apr. 6, 1953.

206930. *POA FUEGIANA* (Hook. f.) Hack. Poaceae.

From Chile. Seeds presented by José Santelices, Punta Arenas, Magallanes. Received Apr. 6, 1953.

206931. *MELINIS MINUTIFLORA* Beauv. Poaceae. **Molasses grass.**

From Puerto Rico. Seeds presented by the Agriculture Extension Service, Río Piedras. Received Apr. 6, 1953.

206932 to 206935. *QUERCUS* spp. Fagaceae. **Oak.**

From France. Seeds presented by Vilmorin-Andrieux, Paris. Received Apr. 6, 1953.

206932. *QUERCUS RUBRA* L.206933. *QUERCUS ILEX* L.**Holly oak.**206934. *QUERCUS ILICIFOLIA* Wang.206935. *QUERCUS PALUSTRIS* L.

## 206936 to 206996.

From Turkey and the Union of South Africa. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Apr. 7, 1953.

Seeds collected in 1952; unless otherwise stated collected in Turkey.

206936. *ABELMOSCHUS ESCULENTUS* (L.) Moench. Malvaceae. **Okra.**

No. 696. Bazaar, Trabzon. Sept. 22.

206937 and 206938. *ALLIUM PORRUM* L. Liliaceae. **Leek.**

206937. No. 926. Eskisehir. Oct. 10.

206938. No. 930. Eskisehir. Oct. 10.

206939. *ANETHUM GRAVEOLENS* L. Apiaceae. **Dill.**

No. 691. Bazaar, Trabzon. Sept. 22.

206940. *APIUM GRAVEOLENS* L. Apiaceae. **Celery.**

No. 745. Bazaar, Giresun.

206941. *ARBUTUS ANDRACHNE* L. Ericaceae.

No. 1022. Antalya. Oct. 14.

206942. *BRASSICA OLERACEA* var. *CAPITATA* L. Brassicaceae. **Cabbage.**

No. 690. Bazaar, Trabzon. Sept. 22.

## 206936 to 206996—Continued

- 206943 to 206950. *CAPSIUM FRUTESCENS* L. Solanaceae. Redpepper.  
 206943. No. 710. Trabzon. Sept. 23.  
 206944. No. 743. Bazaar, Giresun. Sept. 26.  
 206945. No. 878. Ankara University Experiment Station. Oct. 8.  
 206946. No. 880. Ankara University Experiment Station. Oct. 8.  
 206947. No. 929. Eskisehir. Oct. 10.  
 206948. No. 946. Harasi Farm, Eskisehir. Oct. 10.  
 206949. No. 947. Harasi Farm, Eskisehir. Oct. 10.  
 206950. No. 1139. Bornova Agriculture School, Izmir. Oct. 21.
206951. *CERCIS SILIQUASTRUM* L. Caesalpiniaceae.  
 No. 1051a. North of Kemer, Mugla. Oct. 15.
- 206952 to 206955. *CUCUMIS SATIVUS* L. Cucurbitaceae. Cucumber.  
 206952. No. 689. Bazaar, Trabzon. Sept. 22.  
 206953. No. 693. Bazaar, Trabzon. Sept. 22.  
 206954. No. 744. Bazaar, Giresun. Sept. 26.  
 206955. No. 944. Harasi Farm, Eskisehir. Oct. 10.
- 206956 and 206957. *CUCURBITA PEPO* L. Cucurbitaceae. Pumpkin.  
 206956. No. 741. Bazaar, Giresun. Sept. 26.  
 206957. No. 945. Harasi Farm, Eskisehir. Oct. 10.
- 206958 and 206959. *DACTYLIS GLOMERATA* L. Poaceae. Orchard grass.  
 206958. No. 669. Zigana Pass, between Torul and Macka. Sept. 21.  
 206959. No. 871. Ankara University Experiment Station. Oct. 8.
206960. *DAUCUS CAROTA* L. Apiaceae. Carrot.  
 No. 952. Harasi Farm, Eskisehir. Oct. 10.
206961. *DIGITALIS FERRUGINEA* L. Scrophulariaceae.  
 No. 832. Near Kazandelen, Bolu. Oct. 6.
206962. *IRIS* sp. Iridaceae.  
 No. 1065. Delta of Dalaman River near Karagali, Mugla. Oct. 16.
- 206963 to 206966. *LACTUCA SATIVA* L. Cichoriaceae. Lettuce.  
 206963. No. 699. Bazaar, Trabzon. Sept. 22.  
 206964. No. 702. Bazaar, Trabzon. Sept. 22.  
 206965. No. 720. Bazaar, Trabzon. Sept. 23.  
 206966. No. 942. Harasi Farm, Eskisehir. Oct. 10.
- 206967 and 206968. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato.  
 206967. No. 692. Bazaar, Trabzon. Sept. 22.  
 206968. No. 943. Harasi Farm, Eskisehir. Oct. 10.
206969. *PENNISETUM CILIARE* (L.) Link. Poaceae.  
 No. 1225. Near Coddington, Transvaal, Union of South Africa. Nov. 14.
- 206970 to 206987. *PHASEOLUS VULGARIS* L. Fabaceae. Common bean.  
 206970. No. 686. Bazaar, Trabzon. Sept. 22.  
 206971. No. 687. Bazaar, Trabzon. Sept. 22.  
 206972. No. 688. Bazaar, Trabzon. Sept. 22.



## 206936 to 206996—Continued

## 206970 to 206987—Continued

206973 to 206987. Seeds from Ankara University Experiment Station. Oct. 8.

206973. No. 881.

206981. No. 889.

206974. No. 882.

206982. No. 890.

206975. No. 883.

206983. No. 891.

206976. No. 884.

206984. No. 892.

206977. No. 885.

206985. No. 893.

206978. No. 886.

206986. No. 893a.

206979. No. 887.

206987. No. 931.

206980. No. 888.

206988 and 206989. PISUM SATIVUM L. Fabaceae. Pea.

206988. No. 751. Cal Mountain, Giresun. Sept. 27.

206989. No. 864. Ankara University Experiment Station. Oct. 8.

206990. RAPHANUS SATIVUS L. Brassicaceae. Radish.

No. 927. Eskisehir. Oct. 10.

206991. RHODODENDRON PONTICUM L. Ericaceae.

No. 737. Near Kucukhol, Trabzon. Sept. 25.

206992. SECALE ANATOLICUM Boiss. Poaceae.

No. 915. Eskisehir Breeding Station. Oct. 9.

206993. SOLANUM MELONGENA L. Solanaceae. Eggplant.

No. 740. Bazaar, Giresun. Sept. 26.

206994 to 206996. SORGHUM VULGARE Pers. Poaceae.

206994. No. 728. Near Trabzon. Sept. 24.

206995. No. 897. Ankara University Experiment Station. Oct. 8.

206996. No. 898. Ankara University Experiment Station. Oct. 8.

206997. CARICA PAPAYA L. Caricaceae. Papaya.

From Swaziland. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Apr. 7, 1953.

No. 2018. From T. Threlkeld, Swaziland Irrigation Scheme, Mananga. Mar. 18, 1953.

206998 and 206999. FRAGARIA. Rosaceae. Strawberry.

From France. Plants presented by the Delbard Nurseries, Malicorne par Commentry, Allier. Received Apr. 7, 1953.

206998. *Jans Rivale*.

206999. *Madame Moutot*.

207000 to 207003. SOLANUM TUBEROSUM L. Solanaceae. Potato.

From Brazil. Tubers presented by the Ministerio de Agricultura, Campinas, São Paulo. Received Apr. 7, 1953.

207000. No. 1.

207002. No. 3.

207001. No. 2.

207003. No. 4.

## 207004 to 207006. PHASEOLUS VULGARIS L. Fabaceae.

Common bean.

From Mexico. Seeds collected by O. W. Norvell, Ciudad Guzmán, Jalisco  
Received Apr. 8, 1953.

Collected in December 1952.

207004. No. 3680.

207005. No. 3681.

207006. No. 3682.

## 207007 to 207018.

From Peru. Seeds collected by A. F. Swanson, Office of Foreign Agricultural Relations, United States Department of Agriculture, Washington, D. C. Received Apr. 8, 1953.

207007 and 207008. CHENOPODIUM QUINOA Willd. Chenopodiaceae. Quinoa.

207007. No. 1. From the Junín district.

207008. No. 2. From Puno.

207009. CUCUMIS MELO L. Cucurbitaceae.

Muskmelon.

From market, Lima.

207010 and 207011. ORYZA SATIVA L. Poaceae.

Rice.

207010. *Laybayequé* No. 1.

207011. *Laybayequé* No. 2.

207012 to 207018. AVENA SATIVA L. Poaceae.

Oats.

207012. (Burt × 60-Day) × Nemaha F7 H. C. 51-1097; No. 53-6.

207013. Cherokee × Burt-Sixty Day F6 H. C. 51-2033; No. 53-10.

207014. Cherokee × Burt-Sixty Day F6 H. C. 51-2048; No. 53-11.

207015. Clinton-Andrew × Landhofer F7 H. C. 51-1037; No. 53-17.

207016. Clinton-Andrew × Landhofer F7 H. C. 51-1037; No. 53-18.

207017. Clinton-Andrew × Landhofer F7 H. C. 51-1037; No. 53-19.

207018. Clinton-Andrew × Landhofer F7 H. C. 51-1037; No. 53-21.

## 207019 to 207093.

From West Germany. Trees presented by Bundesanstalt für Forst und Holzwirtschaft, Arboretum Tannenhof, Hamburg. Received Apr. 8, 1953.

207019. ABIES sp. Pinaceae.

Fir.

No. 681.

207020. ABIES sp.

No. 682.

207021. ABIES sp.

No. 691.

207022. ABIES sp.

No. 692.

207023. ABIES sp.

No. 1512.

207024. ABIES sp.

No. 1513.

## 207019 to 207093—Continued

207025. ABIES sp.

No. 1519.

207026. ABIES sp.

No. 1539.

207027. ABIES sp.

No. 1663.

207028. ABIES sp.

No. 1684.

207029. ABIES sp.

No. 2222.

207030. LARIX sp. Pinaceae.

Larch.

No. 237.

207031. LARIX sp.

No. 242.

207032. LARIX sp.

No. 391.

207033. LARIX sp.

No. 839.

207034. LARIX sp.

No. 854.

207035. LARIX sp.

No. 874.

207036. LARIX sp.

No. 950.

207037. LARIX sp.

No. 951.

207038. LARIX sp.

No. 959.

207039. LARIX sp.

No. 968.

207040. LARIX sp.

No. 978.

207041. LARIX sp.

No. 990.

207042. LARIX sp.

No. 998.

207043. LARIX sp.

No. 1008.

207044. LARIX sp.

No. 1017.

207045. LARIX sp.

No. 1028.

## 207019 to 207093—Continued

207046. LARIX sp.  
No. 1032.
207047. LARIX sp.  
No. 1039.
207048. LARIX sp.  
No. 1042.
207049. LARIX sp.  
No. 1059.
207050. LARIX sp.  
No. 1070.
207051. LARIX sp.  
No. 1160.
207052. LARIX sp.  
No. 1180.
207053. LARIX sp.  
No. 1188.
207054. LARIX sp.  
No. 1196.
207055. LARIX sp.  
No. 1294.
207056. LARIX sp.  
No. 1295.
207057. LARIX sp.  
No. 1348.
207058. LARIX sp.  
No. 1356.
207059. LARIX sp.  
No. 1367.
207060. LARIX sp.  
No. 1383.
207061. LARIX sp.  
No. 1597.
207062. LARIX sp.  
No. 1638.
207063. LARIX sp.  
No. 1931.
207064. LARIX sp.  
No. 1837.
207065. LARIX sp.  
No. 1841.
207066. LARIX sp.  
No. 1846.



## 207019 to 207093—Continued

207067. LARIX sp.

No. 1851.

207068. LARIX sp.

No. 1856.

207069. LARIX sp.

No. 1974.

207070. LARIX sp.

No. 2172.

207071. LARIX sp.

No. 167150.

207072. PICEA sp. Pinaceae.

Spruce.

No. 897.

207073. PICEA sp.

No. 910.

207074. PICEA sp.

No. 911.

207075. PICEA sp.

No. 927.

207076. PICEA sp.

No. 928.

207077. PICEA sp.

No. 1256.

207078. PICEA sp.

No. 1257.

207079. PICEA sp.

No. 1269.

207080. PICEA sp.

No. 1270.

207081. PICEA sp.

No. 1596.

207082. PICEA sp.

No. 1772.

207083. PICEA sp.

No. 2273.

207084. PICEA sp.

No. 2285.

207085. PICEA sp.

No. 2293.

207086. PICEA sp.

No. 2308.

207087. PICEA sp.

No. 2318.

**207019 to 207093—Continued**207088. *PICEA* sp.

No. 2341.

207089. *PICEA* sp.

No. 2347.

207090. *PICEA* sp.

No. 2589.

207091. *PICEA* sp.

No. 2605.

207092. *PICEA* sp.

No. 2624.

207093. *PICEA* sp.

No. 214150.

**207094. ABUTILON sp. Malvaceae.**

From Southern Rhodesia. Seeds presented by Charles D. Converse, Sabi Valley Experiment Station, Umtali. Received Apr. 9, 1953.

Introduced for testing as a source of fiber.

**207095 to 207125. TRITICUM AESTIVUM L. Poaceae.****Common wheat.**

From Iran. Seeds presented by George Stewart, Plant Science Branch, Point IV, Tehran. Received Apr. 9, 1953.

207095. 2c.	207111. 151 a.
207096. 2d.	207112. 155 e.
207097. 91.	207113. 156 c.
207098. 26 h.	207114. 157 c.
207099. 28 d.	207115. 158 e.
207100. 31.	207116. 159 c.
207101. 50.	207117. 160 d.
207102. 52 b.	207118. 161 g.
207103. 55 a.	207119. 163 b.
207104. 65 o.	207120. 165 g.
207105. 71 c.	207121. 166 b.
207106. 71 g.	207122. 168 c.
207107. 94 a.	207123. 169 c.
207108. 108 e.	207124. 170 e.
207109. 114 a.	207125. 141 b.
207110. 138 d.	

**207126. STROPHANTHUS sp. Apocynaceae.**

From Angola. Seeds presented by Jeanette E. Miller, through V. M. Machado, Ibanga. Received Apr. 9, 1953.

## 207127 to 207449. PHASEOLUS VULGARIS L. Fabaceae.

## Common bean.

From Colombia. Seeds presented by the Ministerio de Agricultura, Medellín.  
Received Apr. 13, 1953.

207127. No. 1. <i>Moro.</i>	207166. No. 40.
207128. No. 2. <i>Facultad.</i>	207167. No. 41.
207129. No. 3. <i>Blanco.</i>	207168. No. 42.
207130. No. 4. <i>Panameno.</i>	207169. No. 43.
207131. No. 5. <i>Higuerillo.</i>	207170. No. 44. <i>Revoltura.</i>
207132. No. 6. <i>Sangretoro.</i>	207171. No. 45.
207133. No. 7. <i>Estrada Blanco.</i>	207172. No. 46.
207134. No. 8. <i>Uribe Redondo</i> <i>L-38.</i>	207173. No. 47.
207135. No. 9. <i>Uribe Redondo</i> <i>L-39.</i>	207174. No. 48. <i>Poroto Tropero.</i>
207136. No. 10. <i>Chileno.</i>	207175. No. 49. <i>Poroto Rey de los</i> <i>Negros.</i>
207137. No. 11. <i>Algarrobo L-100.</i>	207176. No. 50. <i>Poroto Burrito.</i>
207138. No. 12. <i>Algarrobo L-101.</i>	207177. No. 51. <i>Ocanero.</i>
207139. No. 13. <i>Algarrobo L-102.</i>	207178. No. 52. <i>Ocanero.</i>
207140. No. 14. <i>Algarrobo L-117.</i>	207179. No. 53. <i>Feijão Opaco.</i>
207141. No. 15. <i>Caraota Negra.</i>	207180. No. 54. <i>Feijão Pico de</i> <i>Oro.</i>
207142. No. 16. <i>Negrito.</i>	207181. No. 55. <i>Huevo de Pinohe.</i>
207143. No. 17. <i>Blanquillo.</i>	207182. No. 56.
207144. No. 18. <i>Ahumado.</i>	207183. No. 57. <i>De Vara.</i>
207145. No. 19. <i>Rochela.</i>	207184. No. 58. <i>Matahambre</i> <i>Amarillo.</i>
207146. No. 20. <i>Uribe Largo.</i>	207185. No. 59. <i>Matahambre</i> <i>Rosado.</i>
207147. No. 21. <i>Monteria.</i>	207186. No. 60. <i>Matahambre</i> <i>Negro.</i>
207148. No. 22. <i>Estrada Rosado.</i>	207187. No. 61. <i>Común.</i>
207149. No. 23. <i>Pico de Oro.</i>	207188. No. 62.
207150. No. 24. <i>Tenzano.</i>	207189. No. 63. <i>Barcino.</i>
207151. No. 25. <i>Liberono L-1.</i>	207190. No. 64. <i>Chiquito Colorado.</i>
207152. No. 26. <i>Liberano L-6.</i>	207191. No. 65. <i>Oro.</i>
207153. No. 27. <i>Liberano L-7.</i>	207192. No. 66. <i>Nagafzura.</i>
207154. No. 28. <i>Liberano L-10.</i>	207193. No. 67. <i>Pinck.</i>
207155. No. 29. <i>Sanchez L-37.</i>	207194. No. 68. <i>Traros.</i>
207156. No. 30. <i>Sanchez L-38.</i>	207195. No. 69. <i>Metis.</i>
207157. No. 31. <i>Sanchez L-40.</i>	207196. No. 70. <i>Bayo Palo.</i>
207158. No. 32. <i>Sanchez L-41.</i>	207197. No. 71. <i>Burros 202.</i>
207159. No. 33. <i>Uribe Limoneno.</i>	207198. No. 72. <i>C. C. G. B.-44.</i>
207160. No. 34. <i>Mortino.</i>	207199. No. 73. <i>Arbolito.</i>
207161. No. 35. <i>Cejon.</i>	207200. No. 74.
207162. No. 36.	207201. No. 75. <i>Arbolito.</i>
207163. No. 37. <i>Cargamanto.</i>	207202. No. 76. <i>Arbolito Blanco.</i>
207164. No. 38.	
207165. No. 39.	

## 207127 to 207449—Continued

207203. No. 77. B. 1213.  
 207204. No. 78. B-1419-1-9X4.  
 205205. No. 79. 814 Kentucky.  
 207206. No. 80. U.S. #3.  
 207207. No. 81. Z-#4.  
 207208. No. 82. 780 Kentucky.  
 207209. No. 83. Golden Gate Wax.  
 207210. No. 84. Idaho Pinto.  
 207211. No. 85. 643 California Small.  
 207212. No. 86. 765 Kentucky.  
 207213. No. 87. C.C.G.B. -12.  
 207214. No. 88. C.C.G.B. -5.  
 207215. No. 89. C.C.G.B. -1.  
 207216. No. 90. Sangretoro.  
 207217. No. 91. Cuarentano.  
 207218. No. 92. Venadito.  
 207219. No. 93.  
 207220. No. 94. Cachaco.  
 207221. No. 95. Mexico 49.  
 207222. No. 96. Variedad 3-1.  
 207223. No. 97. Mexico 8-1.  
 207224. No. 98. Variedad 16-1.  
 207225. No. 99. Variedad 29-5.  
 207226. No. 100. Variedad 33-4.  
 207227. No. 101. Variedad 35-3.  
 207228. No. 102. Variedad 35-4.  
 207229. No. 103. Mexico 37-4.  
 207230. No. 104. Variedad 41-3.  
 207231. No. 105. Mexico 51-1.  
 207232. No. 106. Mexico 59-2.  
 207233. No. 107. 179-1  
 207234. No. 108. 255-2.  
 207235. No. 109. 327-3.  
 207236. No. 110. 348-2.  
 207237. No. 111. 357-2.  
 207238. No. 112. 389-2.  
 207239. No. 113. 425-1.  
 207240. No. 114. Mexico 5-A.  
 207241. No. 115. Mexico 38-A.  
 207242. No. 116. Mexico 17-B.  
 207243. No. 117. Mexico 34-C.  
 207244. No. 118. Hidalgo 12-A.  
 207245. No. 119. Hidalgo 14-A.  
 207246. No. 120. Hidalgo 18-A.  
 207247. No. 121. Hidalgo 25-A.  
 207248. No. 122. Hidalgo 28-A.  
 207249. No. 123. Hidalgo 33-A.  
 207250. No. 124. Hidalgo 42-A.  
 207251. No. 125. Puebla 11-A.  
 207252. No. 126. Puebla 32-A.  
 207253. No. 127. Puebla 8-B.  
 207254. No. 128. Puebla 9-B.  
 207255. No. 129. Puebla 11-B.  
 207256. No. 130. Puebla 20-B.  
 207257. No. 131. Puebla 32-B.  
 207258. No. 132. Guanajuato 10-A.  
 207259. No. 133. Chiapas 10-3.  
 207260. No. 134. Chiapas 82-2.  
 207261. No. 135. Tlalnepantla 37.  
 207262. No. 136. Tlalnepantla 64.  
 207263. No. 137. Desconocido 7.  
 207264. No. 138. Zacatecas 4-A.  
 207265. No. 139. Aguascalientes 10-3.  
 207266. No. 140. Aguascalientes 11-3.  
 207267. No. 141. Aguascalientes 9-1.  
 207268. No. 142. Aguascalientes 22-3.  
 207269. No. 143. Aguascalientes 23-2.  
 207270. No. 144. Chiapas 2A-2.  
 207271. No. 145. Chiapas 2B-1.  
 207272. No. 146. Chiapas 10-2.  
 207273. No. 147. Chiapas 3-A.  
 207274. No. 148. Chiapas 29-3.  
 207275. No. 149. Chiapas 15.  
 207276. No. 150. Chiapas 58-1.  
 207277. No. 151. Chiapas 57-2.  
 207278. No. 152. Chiapas 37.  
 207279. No. 153. Chiapas 36-3.  
 207280. No. 154. Chiapas 65-1.  
 207281. No. 155. Chiapas 73-4.  
 207282. No. 156. Chiapas 84-3.  
 207283. No. 157. Chiapas 88.



## 207127 to 207449—Continued

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| 207284. No. 158. <i>Chiapas 94-3.</i>                | 207323. No. 197. <i>Hidalgo 51.</i>    |
| 207285. No. 159. <i>Chiapas 96-3.</i>                | 207324. No. 198. <i>Jalisco 19.</i>    |
| 207286. No. 160. <i>Durango 2-2.</i>                 | 207325. No. 199. <i>Jalisco 45.</i>    |
| 207287. No. 161. <i>Querétaro 7-2.</i>               | 207326. No. 200. <i>Jalisco 49.</i>    |
| 207288. No. 162. <i>Querétaro 3-A-2.</i>             | 207327. No. 201. <i>Jalisco 43.</i>    |
| 207289. No. 163. <i>Querétaro 6-2.</i>               | 207328. No. 202. <i>Jalisco 44.</i>    |
| 207290. No. 164. <i>Guanajuato</i><br><i>64-A-1.</i> | 207329. No. 203. <i>Jalisco 50.</i>    |
| 207291. No. 165. <i>Guanajuato 14.</i>               | 207330. No. 204. <i>Jalisco 13-A.</i>  |
| 207292. No. 166. <i>Guanajuato</i><br><i>11A-5.</i>  | 207331. No. 205. <i>Jalisco 51.</i>    |
| 207293. No. 167. <i>Guanajuato 19.</i>               | 207332. No. 206. <i>Jalisco 27-2.</i>  |
| 207294. No. 168. <i>Guanajuato 23.</i>               | 207333. No. 207. <i>Jalisco 41-1.</i>  |
| 207295. No. 169. <i>Guanajuato</i><br><i>27-1.</i>   | 207334. No. 208. <i>Jalisco 22-2.</i>  |
| 207296. No. 170. <i>Guanajuato</i><br><i>32-1.</i>   | 207335. No. 209. <i>Jalisco 23-3.</i>  |
| 207297. No. 171. <i>Guanajuato 40.</i>               | 207336. No. 210. <i>Jalisco 31-1.</i>  |
| 207298. No. 172. <i>Guanajuato 37.</i>               | 207337. No. 211. <i>Jalisco 32-2.</i>  |
| 207299. No. 173. <i>Guanajuato 48.</i>               | 207338. No. 212. <i>Jalisco 34-2.</i>  |
| 207300. No. 174. <i>Guanajuato</i><br><i>43-3.</i>   | 207339. No. 213. <i>Jalisco 42-3.</i>  |
| 207301. No. 175. <i>Guanajuato 57.</i>               | 207340. No. 214. <i>Jalisco 46-1.</i>  |
| 207302. No. 176. <i>Guanajuato 59.</i>               | 207341. No. 215. <i>Jalisco 47-2.</i>  |
| 207303. No. 177. <i>Guanajuato</i><br><i>65-1.</i>   | 207342. No. 216. <i>Jalisco 54-1.</i>  |
| 207304. No. 178. <i>Guanajuato 67.</i>               | 207343. No. 217. <i>Jalisco 1-17.</i>  |
| 207305. No. 179. <i>Hidalgo 28-A-4.</i>              | 207344. No. 218. <i>Jalisco 57-3.</i>  |
| 207306. No. 180. <i>Hidalgo 38-A.</i>                | 207345. No. 219. <i>Jalisco 14.</i>    |
| 207307. No. 181. <i>Hidalgo 39-A.</i>                | 207346. No. 220. <i>Jalisco 17-1.</i>  |
| 207308. No. 182. <i>Hidalgo 12-A.</i>                | 207347. No. 221. <i>Mexico 53-A-2.</i> |
| 207309. No. 183. <i>Hidalgo 11-A.</i>                | 207348. No. 222. <i>Mexico 52-A-3.</i> |
| 207310. No. 184. <i>Hidalgo 19-A.</i>                | 207349. No. 223. <i>Mexico 49-1.</i>   |
| 207311. No. 185. <i>Hidalgo 12-A-2.</i>              | 207350. No. 224. <i>Mexico 38-A-3.</i> |
| 207312. No. 186. <i>Hidalgo 23-A-2.</i>              | 207351. No. 225. <i>Mexico 36-A-2.</i> |
| 207313. No. 187. <i>Hidalgo 25-A-1.</i>              | 207352. No. 226. <i>Mexico 34-c-4.</i> |
| 207314. No. 188. <i>Hidalgo 29-A.</i>                | 207353. No. 227. <i>Mexico 31-A.</i>   |
| 207315. No. 189. <i>Hidalgo 31-B-2.</i>              | 207354. No. 228. <i>Mexico 30-A-2.</i> |
| 207316. No. 190. <i>Hidalgo 33-A.</i>                | 207355. No. 229. <i>Mexico 26-A-3.</i> |
| 207317. No. 191. <i>Hidalgo 41-A-3.</i>              | 207356. No. 230. <i>Mexico 25-A-3.</i> |
| 207318. No. 192. <i>Hidalgo 43-A-1.</i>              | 207357. No. 231. <i>Mexico 22-D-2.</i> |
| 207319. No. 193. <i>Hidalgo 44-A.</i>                | 207358. No. 232. <i>Mexico 22-A-1.</i> |
| 207320. No. 194. <i>Hidalgo 45-A.</i>                | 207359. No. 233. <i>Mexico 17-B-1.</i> |
| 207321. No. 195. <i>Hidalgo 46-A.</i>                | 207360. No. 234. <i>Mexico 17-A-1.</i> |
| 207322. No. 196. <i>Hidalgo 48-A.</i>                | 207361. No. 235. <i>Mexico 12.</i>     |
|  | 207362. No. 236. <i>Mexico 5-E-1.</i>  |
|  | 207363. No. 237. <i>Mexico 5-A.</i>    |
|  | 207364. No. 238. <i>Mexico 1-A.</i>    |
|  | 207365. No. 239. <i>Michoacán 26.</i>  |

## 207127 to 207449—Continued

207366. No. 240. *Michoacán 20.*  
 207367. No. 241. *Michoacán 29-3.*  
 207368. No. 242. *Michoacán 48.*  
 207369. No. 243. *Michoacán 12-A.*  
 207370. No. 244. *Michoacán 13-A-4.*  
 207371. No. 245. *Michoacán 2-A.*  
 207372. No. 246. *Oaxaca 14.*  
 207373. No. 247. *Oaxaca 5-1.*  
 207374. No. 248. *Oaxaca 7-1.*  
 207375. No. 249. *Puebla 54-3.*  
 207376. No. 250. *Puebla 53-2.*  
 207377. No. 251. *Puebla 2-A.*  
 207378. No. 252. *Puebla 3-A-2.*  
 207379. No. 253. *Puebla 27A.*  
 207380. No. 254. *Puebla 27-C-1.*  
 207381. No. 255. *Puebla 35.*  
 207382. No. 256. *Puebla 36.*  
 207383. No. 257. *Puebla 33.*  
 207384. No. 258. *Puebla 32-B-2.*  
 207385. No. 259. *Puebla 34-2.*  
 207386. No. 260. *Puebla 18-A-1.*  
 207387. No. 261. *Puebla 32-A-1.*  
 207388. No. 262. *Puebla 11-A.*  
 207389. No. 263. *Querétaro 7-5.*  
 207390. No. 264. *Sinaloa 1-A-1.*  
 207391. No. 265. *Tabasco 1-A-2.*  
 207392. No. 266. *Veracruz 1-A-5.*  
 207393. No. 267. *Veracruz 10.*  
 207394. No. 268. *Veracruz 12-2.*  
 207395. No. 269. *Veracruz 2-A-3.*  
 207396. No. 270. *Zacatecas 4A.*  
 207397. No. 271. *Zacatecas 9A-8.*  
 207398. No. 272. *Zacatecas 15-5.*  
 207399. No. 273. *Zacatecas 16-1.*  
 207400. No. 274. *Zacatecas 17-1.*  
 207401. No. 275. *Zacatecas 10-A-1.*  
 207402. No. 276. *Zacatecas 7A-3.*  
 207403. No. 277. *Zacatecas 3A.*  
 207404. No. 278. *Guatemala 4.*  
 207405. No. 279. *Guatemala 6-2.*  
 207406. No. 280. *Guatemala 9-1.*  
 207407. No. 281. *Guatemala 10.*  
 207408. No. 282. *Guatemala 14-2.*  
 207409. No. 283. *Guatemala 18-3.*  
 207410. No. 284. *Guatemala 29.*  
 207411. No. 285. *Guatemala 25-1.*  
 207412. No. 286. *Santa Lucia.*  
 207413. No. 287.  
 207414. No. 288. *Revoltura.*  
 207415. No. 289. *Revoltura.*  
 207416. No. 290. *Revoltura.*  
 207417. No. 291. *Revoltura.*  
 207418. No. 292. *Boca de Angel.*  
 207419. No. 293. *Guarzo Rojo.*  
 207420. No. 294. *Guarzo Rojo.*  
 207421. No. 295. *Blanquillo.*  
 207422. No. 296. *Pirola.*  
 207423. No. 297. *Moro.*  
 207424. No. 298. *Chorlo.*  
 207425. No. 299. *Blanco.*  
 207426. No. 300. *Bola Amarilla.*  
 207427. No. 301. *Poroto Parado.*  
 207428. No. 302. *Revoltura.*  
 207429. No. 303. *Canario.*  
 207430. No. 304. *Chacrerero.*  
 207431. No. 305. *Lojano.*  
 207432. No. 306. *Poroto Blanco.*  
 207433. No. 307.  
 207434. No. 308.  
 207435. No. 309.  
 207436. No. 310. *Tordo.*  
 207437. No. 311. *Panamito.*  
 207438. No. 312.  
 207439. No. 313. *Panamito.*  
 207440. No. 314. *Frijol Chileno.*  
 207441. No. 315. *Cayo Corriente.*  
 207442. No. 316. *Frijol Amito y Chaucha.*  
 207443. No. 317. *Matahambre.*  
 207444. No. 318. *Frijol Cholo.*  
 207445. No. 319. *Frijol Papayanejo.*  
 207446. No. 320. *Chocho.*  
 207447. No. 321. *Frijol Canario.*  
 207448. No. 322. *Popayanejo.*  
 207449. No. 323. *Frijol Bajo.*

**207450 to 207529.**

From Afghanistan. Seeds collected by H. S. Gentry, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Oct. 29, 1953.

Collected in Kabul Province in September and October 1953.

**207450 to 207461.** From Paghman unless otherwise stated.

**207450.** *BROMUS OXYODON* Schrenk. Poaceae.

No. 12669. Slender annual.

**207451.** *AGROPYRON* sp. Poaceae.

No. 12658.

**207452.** *AGROPYRON* sp.

No. 12666. Perennial.

**207453.** *AGROPYRON* sp.

No. 12676. Tufted perennial.

**207454 and 207455.** *AGROSTIS ALBA* L. Poaceae.

**Redtop.**

**207454.** No. 12659. Annual.

**207455.** No. 12674. Annual.

**207456.** *ALLIUM CEPA* L. Liliaceae.

**Onion.**

No. 12631. Market, Kabul.

**207457.** *ALLIUM* sp.

No. 12628. Market, Kabul.

**207458.** *AMORPHA* sp. Fabaceae.

No. 12679. Low caespitose shrub.

**207459.** *ANDROPOGON ISCHAEMUM* L. Poaceae.

No. 12665. Forms dense sod.

**207460.** *ANDROPOGON* sp.

No. 12675. Tall perennial.

**207461.** *ASPARAGUS OFFICINALIS* L. Liliaceae.

**Asparagus.**

No. 12661. Thick-stemmed perennial with arching foliage.

**207462 to 207529.** From market at Kabul unless otherwise stated.

**207462** *BRASSICA JUNCEA* (L.) Coss. Brassicaceae. **Chinese mustard.**

No. 12633.

**207463 and 207464.** *BRASSICA RAPA* L.

**Turnip.**

**207463.** No. 12627. Fifty miles north of Kabul.

**207464.** No. 12638. Red variety.

**207465.** *BRASSICA* sp.

No. 12626. Cultivated for oil.

**207466.** *CORIANDRUM SATIVUM* L. Apiaceae.

**Coriander.**

No. 12634.

**207467.** *CARUM* sp. Apiaceae.

No. 12677. Above Paghman. Perennial herb.

**207468.** *CELTIS* sp. Ulmaceae.

No. 12683. King's gardens, Paghman.

## 207450 to 207529—Continued

## 207462 to 207529—Continued

207469. *CERCIS* sp. *Caesalpiniaceae*.

No. 12656. King's gardens, south of Kabul.

207470. *CICER ARIETINUM* L. *Fabaceae*.

Chickpea.

No. 12620. Small seeded.

207471 to 207473. *CITRULLUS VULGARIS* Schrad. *Cucurbitaceae*.

Watermelon.

207471. No. 12611. Kabul. Rind creamy white; flesh red; seeds black. Keeps well.

207472. No. 12655. Striped green; flesh red, sweet.

207473. No. 12685. Market, Paghman. Small, dark-green stripes.

207474 and 207475. *CUCUMIS MELO* L. *Cucurbitaceae*. Muskmelon.

207474. No. 12637. Kabul. Oblong, netted, yellowish; flesh thick, whitish.

207475. No. 12694. Whitish, with little net; flesh white; flavor poor.

207476 to 207478 *CUCUMIS SATIVUS* L.

Cucumber.

207476. No. 12646.

207477. No. 12651. Fruits 2 feet long.

207478. No. 12652. Fruits long, serpentine.

207479. *CUCURBITA MOSCHATA* Duchesne. *Cucurbitaceae*.

Cushaw.

No. 12693. Small, round, light-yellow.

207480. *DAUCUS CAROTA* L. *Apiaceae*.

Carrot.

No. 12618.

207481. *DESCURAINIA SOPHIA* (L.) Prantl. *Brassicaceae*.

No. 12645. Seeds used medicinally for stomach ailments.

207482. *FOENICULUM VULGARE* Mill. *Apiaceae*.

Fennel.

No. 12636.

207483. *HERACLEUM* sp. *Apiaceae*.

No. 12670. Above Paghman. Coarse annual 7 feet tall. Basal leaves fed to cattle.

207484. *HORDEUM* sp. *Poaceae*.

Barley.

No. 12615.

207485. *HORDEUM* sp.

No. 12629.

207486. *HORDEUM* sp.

No. 12642. Matures in 2 months.

207487 and 207488. *JUGLANS REGIA* L. *Juglandaceae*. Persian walnut.

207487. No. 12643. Large tree.

207488. No. 12682. Garden above Paghman. Small tree.

207489. *KOELERIA CRISTATA* (L.) Pers. *Poaceae*.

No. 12680. Rocky canyon slope above Paghman. Tufted perennial.

207490. *LACTUCA SATIVA* L. *Cichoriaceae*.

Lettuce.

No. 12650. Open-leaved type.



## 207450 to 207529—Continued

## 207462 to 207529—Continued

207491. *LAWSONIA INERMIS* L. Lythraceae.  
No. 12689. Lentil.
207492. *LENS CULINARIS* Medic. Fabaceae.  
No. 12621. Annual. Garden cress.
207493. *LEPIDIUM SATIVUM* L. Brassicaceae.  
No. 12639. Alfalfa.
- 207494 and 207495. *MEDICAGO SATIVA* L. Fabaceae.  
207494. No. 12671. Canyon above Paghman.  
207495. No. 12613.
207496. *MELICA CILIATA* L. Poaceae.  
No. 12678. Rocky canyon slope above Paghman. Black medic.
207497. *MEDICAGO LUPULINA* L. Fabaceae.  
No. 12663. Rocky canyon slope above Paghman. Perennial; yellow flowers. Common basil.
207498. *OCIMUM BASILICUM* L. Menthaceae.  
No. 12648.
207499. *ONOBRYCHIS GAUBAE* Bornm. Fabaceae.  
No. 12667. Above Paghman. Perennial with dense rosette of leaves and reclining-ascending stems; flowers pale yellow.
207500. *ORYZOPSIS COERULESCENES* (Desf.) Hack. Poaceae.  
No. 12672. Above Paghman. Tufted perennial. Proso.
- 207501 and 207502. *PANICUM MILIACEUM* L. Poaceae.  
207501. No. 12624.  
207502. No. 12625.
207503. *PEGANUM HARMALA* L. Zygophyllaceae.  
No. 12649.
207504. *PHASEOLUS AUREUS* Roxb. Fabaceae.  
No. 12640. Mung bean.
- 207505 and 207506. *PHASEOLUS VULGARIS* L.  
207505. No. 12686. Common bean.  
207506. No. 12687.
207507. *PHASEOLUS LUNATUS* L.  
No. 12688. Lima bean.
207508. *PISUM SATIVUM* L. Fabaceae.  
No. 12616. Pea.
207509. *PLANTAGO* sp. Plantaginaceae.  
No. 12644. Seeds used medicinally.
207510. *PLATANUS ORIENTALIS* L. Platanaceae.  
No. 12684. Paghman. Oriental planetree.
207511. *POA* sp. Poaceae.  
No. 12673. Paghman. Perennial.

## 207450 to 207529—Continued

## 207462 to 207529—Continued

207512. *PORTULACA OLERACEA* L. Portulacaceae. Purslane.  
No. 12635.
207513. *PRUNUS DOMESTICA* L. Amygdalaceae. Common plum.  
No. 12654. Istalif. Prune; 1½ inches in diameter.
207514. *PRUNUS AMYGDALUS* Batsch. Almond.  
No. 12653. Ghorband.
207515. *PRUNUS TOMENTOSA* Thunb.  
No. 12681. Above Paghman.
207516. *RAPHANUS SATIVUS* L. Brassicaceae. Radish.  
No. 12622. Maidan, west of Kabul.
207517. *SOLANUM MELONGENA* L. Solanaceae. Eggplant.  
No. 12691. Fruits long, slender, pointed.
207518. *SPINACIA OLERACEA* L. Chenopodiaceae. Spinach.  
No. 12632.
207519. *THUJA ORIENTALIS* L. Pinaceae. Oriental arborvitae.  
No. 12660. Parliamentary Gardens, Kabul.
- 207520 and 207521. *TRIFOLIUM PRATENSE* L. Fabaceae. Red clover.  
207520. No. 12623.  
207521. No. 12662. Above Paghman.
207522. *TRIFOLIUM RESUPINATUM* L. Persian clover.  
No. 12612.
- 207523 and 207524. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.  
207523. No. 12619. Winter wheat.  
207524. No. 12641. Spring wheat.
207525. *VIGIA ERVILIA* (L.) Willd. Fabaceae. Vetch.  
No. 12617. Annual.
207526. *VICIA FABA* L. Broadbean.  
No. 12630.
207527. *VIGNA SINENSIS* (Torner) Savi. Fabaceae. Cowpea.  
No. 12692.
207528. *ZEA MAYS* L. Poaceae. Corn.  
No. 12614.
207529. *ZIZIPHUS JUJUBA* Mill. Rhamnaceae. Jujube.

207530 to 207534. *ARACHIS HYPOGAEA* L. Fabaceae. Peanut.

From the Belgian Congo. Seeds presented by the INEAC, Station de Rubona, Ruanda. Received Oct. 29, 1953.

207530. *Kichusa*. 207533. *Senegal*.  
207531. *Kigan*. 207534. *A26*.  
207532. *Mputu*.

**207535. PRUNUS AVIUM L. Amygdalaceae. Sweet cherry.**

From Cyprus. Seeds presented by the Agricultural Officer, Department of Agriculture, Nicosia. Received Nov. 2, 1953.

*Karthatziotica.*

**207536. ARACHIS sp. Fabaceae.**

From Paraguay. Plants presented by Charles Breitenbach, Institute of Inter-American Affairs, Ascunción. Received Nov. 2, 1953.

**207537. PENNISETUM CLANDESTINUM Hochst. & Chiov. Poaceae. Kikuyu grass.**

From Kenya. Seeds presented by the Senior Pasture Research Officer, Department of Agriculture, Kitale. Received Nov. 2, 1952.

*Kabete* (ecotype.)

**207538 to 207540. DESMODIUM spp. Fabaceae.**

From Peru. Seeds presented by A. F. Swanson, Foreign Agricultural Service, United States Department of Agriculture, Washington, D. C. Received Nov. 2, 1953.

From the Tarapoto area at 700 feet altitude.

**207538. DESMODIUM sp.**

*Pega Pega.* (Pink flower.)

**207539. DESMODIUM sp.**

*Pega Pega.* (Yellow flower.)

**207540. DESMODIUM sp.**

*Pega Pega.*

**207541. CROTALARIA INTERMEDIA Kotschy. Fabaceae.**

From Southern Rhodesia. Seeds presented by the Sabi Valley Experiment Station, Umtali. Received Nov. 3, 1953.

**207542 to 207549.**

From the Union of South Africa. Seeds collected by H. P. v.d. Schyff, Kruger National Park, Transvaal. Received Nov. 3, 1953.

**207542. CHLORIS sp. Poaceae.****207543. ECHINOCHLOA sp. Poaceae.****207544. SETARIA SULCATA Raddi. Poaceae.****207545 and 207546. ROTTBOELLIA EXALTATA L. f. Poaceae.**

207545. No. 1.

207546. No. 2.

**207547. SETARIA SPHECELATA (Schum.) Stapf & Hubb. Poaceae.****207548 and 207549. DANTHONIOPSIS DINTERI (Pilg.) Hubb. Poaceae.**

207548. No. 1.

207549. No. 2.

**207550 to 207597. PHASEOLUS VULGARIS L. Fabaceae.**

**Common bean.**

From Colombia. Seeds presented by the Ministerio de Agricultura, Medellin. Received Apr. 13, 1953.

207550. No. 324. *Frijol Macheton Morado.*

207551. No. 325. *Bola Blanca.*

## 207550 to 207597—Continued

207552. No. 326. *Frijol Cholo.*  
207553. No. 327. *Panamito.*  
207554. No. 328. *Frijol Negrito.*  
207555. No. 329. *Zhullin.*  
207556. No. 330.  
207557. No. 331. *Cholli Amarillo.*  
207558. No. 332. *Frijol Matahambre.*  
207559. No. 333. *Frijol Largo Amarillento.*  
207560. No. 334. *Conan Amarillo.*  
207561. No. 335. *Cholo.*  
207562. No. 336. *Frijol Macheton Rosado.*  
207563. No. 337. *Frijol Blanco.*  
207564. No. 338. *Tigrillo.*  
207565. No. 339. *Frijol Bola Amarilla.*  
207566. No. 340. *Frijol Matahambre.*  
207567. No. 341. *Maradito.*  
207568. No. 342. *Frijol Mahi.*  
207569. No. 343. *Bola Negra Con. Blanco.*  
207570. No. 344. *Bolon Blanco.*  
207571. No. 345. *Frijol Cholo.*  
207572. No. 346. *Palisero.*  
207573. No. 347. *Bolon Blanco.*  
207574. No. 348.  
207575. No. 349. *Palisemo.*  
207576. No. 350. *Matahambre Amarillo.*  
207577. No. 351. *Cholo o Cuarenton.*  
207578. No. 352. *Panamito o Palmito.*  
207579. No. 353. *Cholo.*  
207580. No. 354. *Amarillo Danteno.*  
207581. No. 355. *Conejo.*  
207582. No. 356. *Gateado.*  
207583. No. 357. *Bola Colorada.*  
207584. No. 358. *Habilla.*  
207585. No. 359. *Poroto Serrano.*  
207586. No. 360. *Matahambre Negro.*  
207587. No. 361. *Muya.*  
207588. No. 362. *Matahambre Rayado Arbolito.*  
207589. No. 363. *Pussito.*  
207590. No. 364. *Habilla.*  
207591. No. 365. *Habilla.*  
207592. No. 366. *Morado.*  
207593. No. 367. *Frijol Blanco.*



**207550 to 207597—Continued**207594. No. 368. *Blanco Largo*.207595. No. 369. *Bayo*.207596. No. 370. *Cholo*.207597. No. 371. *Gateado*.**207598. PRUNUS ARMENIACA L. Amygdalaceae.****Apricot.**

From California. Plant growing at the United States Plant Introduction Garden, Chico. Numbered Apr. 13, 1953.

Selection (J-8-103) from P.I. 125607.

**207599 to 207622. SACCHARUM. Poaceae.****Sugarcane.**

From the Canal Zone. Cuttings presented by the Canal Zone Experiment Garden, Summit. Received Apr. 14, 1953.

207599. Ardjoena Green—1048.

207611. Bastard (From Rayada) 9.

207600. 21NG20—326.

207612. POJ 2802—556.

207601. 28NG221—706.

207613. 28NG9—315.

207602. Summit Seedling.

207614. Badila X—228.

207603. N.C. 30—890.

207615. 28NG74—903.

207604. 21NG5—312.

207616. 28NG93—914.

207605. 28NG267—548.

207617. N.C. 94—915.

207606. N.C. 32 Striped—892.

207618. D.I. 52—68.

207607. 28NG220—495.

207619. Uba Striped S-9-1.

207608. N.C. 31—891.

207620. 21NG20 Red—326.

207609. S.C. 12/4.

207621. 28NG279—673.

207610. Diamond 10—720.

207622. N.C. 80—906.

**207623 to 207627. BETA VULGARIS L. Chenopodiaceae.****Beet.**

From the Netherlands. Seeds presented by the Instituut voor Rationele Suikerproductie, Bergen op Zoom. Received Apr. 14, 1953.

207623. No. 2.

207626. No. 41.

207624. No. 17.

207627. No. 44.

207625. No. 23.

**207628. COIX LACRYMA-JOBI var. MA-YUEN (Romanet) Stapf.****Poaceae.****Adlay.**

From the Philippine Islands. Seeds presented by P. A. Rodrigo, Department of Agriculture &amp; Natural Resources, Manila. Received Apr. 14, 1953.

**207629 to 207631. COFFEA ARABICA L. Rubiaceae.****Arabian coffee.**

From Ethiopia. Seeds presented by Pierre G. Sylvain, Food and Agricultural Organization of the United Nations, Addis Ababa. Received Apr. 14, 1953.

207629. S. 12. *Kaffa*.207630. S. 14. *Loulo*.207631. S. 13. *Zeghie*.

**207632 to 207634.**

From India. Seeds presented by an unknown donor, Nilgiri, Madras. Received Apr. 14, 1953.

**207632.** *CHLORIS ROXBURGHIANA* Schult. Poaceae.

**207633.** *LEPTOCHLOA MONOSTACHYA* Roem & Schult. Poaceae.

**207634.** *LEPTOCHLOA OBTUSIFLORA* Hochst.

**207635. GLYCYRRHIZA GLABRA L. Fabaceae. Common licorice.**

From Syria. Seeds presented by C. O. Eyer, Near East Foundation, Damascus. Received Apr. 14, 1953.

**207636. MALUS SYLVESTRIS Mill. Malaceae. Apple.**

From Finland. Scions presented by H. Hardh, Department of Plant Pathology, Tikkurila. Received Apr. 16, 1953.

*Red Cinnamon.*

**207637 to 207642. AVENA SATIVA L. Poaceae. Oats.**

From Peru. Seeds presented by A. F. Swanson, Foreign Agricultural Service, United States Department of Agriculture, Washington, D. C. Received Apr. 16, 1953.

Seeds grown at La Molina, Lima.

**207637.** Burt X 60-Day X Nemaha F7 HC 51-1097.

**207638.** Cherokee X Burt X 60-Day F6 HC 51-2048.

**207639.** Clinton-Andrew X Landhafer F7 HC 51-1029.

**207640.** Clinton-Andrew X Landhafer F7 HC 51-1037.

**207641.** Clinton-Andrew X Landhafer F7 HC 51-1042.

**207642.** Clinton-Andrew X Landhafer F7 HC 51-1044.

**207643 and 207644. GLYCINE MAX (L.) Merrill. Fabaceae. Soybean.**

From the Philippine Islands. Seeds presented by Ivan H. Miles, Manila. Received Apr. 16, 1953.

**207643.** No. 1.

**207644.** No. 2.

**207645. RHODODENDRON PONTICUM L. Ericaceae.**

From Turkey. Seeds collected by Baki Kasapligil Botanical Institute, Ankara. Received Apr. 17, 1953.

From 4 miles south of Mersivan, near Artvin.

**207646 to 207648. RHODODENDRON PONTICUM L. Ericaceae.**

From Turkey. Seeds collected by Prof. A. Heilbronn, Zonguldak. Received Apr. 17, 1953.

**207646.** No. 2-53.

**207647.** No. 139-52-1.

**207648.** No. 139-52-2.

**207649 to 207653. NICOTIANA TABACUM L. Solanaceae.**

**Common tobacco.**

From Belgium. Seeds presented by the Rijkslandbouwhogeschool, Gent. Received Apr. 17, 1953.

**207649.** *Appelterre.*

**207652.** L. 06.

**207650.** *Flandria.*

**207653.** *Philippijn.*

**207651.** H. 33.

**207654 and 207655.**

From the Philippine Islands. Seeds presented by the Director of Plant Industry, Bureau of Plant Industry, Manila. Received Apr. 17, 1953.

**207654. GLYCINE MAX (L.) Merrill.** Fabaceae.

**Soybean.**

*Bilomi No. 3.*

**207655. PHASEOLUS AUREUS Roxb.** Fabaceae.

**Mung bean.**

Perennial type.

**207656. RHODODENDRON. Ericaceae.**

From Washington. Seeds presented by the University of Washington Arboretum, Seattle. Received Apr. 17, 1953.

*Rhododendron wightii* × *degronianum*. Originally from Edinburgh, Scotland.

**207657 to 207669.**

From Japan. Seeds presented by K. Matsuoka, Shikoku Experiment Station, Shikoku. Received Apr. 17, 1953.

Originally from French Morocco unless otherwise stated.

**207657. CROTALARIA JUNCEA L.** Fabaceae.

**Sunn-hemp.**

Originally from Ceylon.

**207658 to 207662. CUCUMIS MELO L.** Cucurbitaceae.

**Muskmelon.**

**207658. No. 1.**

**207661. No. 4.**

**207659. No. 2.**

**207662. No. 5.**

**207660. No. 3.**

**207663. PANICUM MILIACEUM L.** Poaceae.

**Proso.**

**207664 to 207668. SESAMUM INDICUM L.** Pedaliaceae.

**Sesame.**

**207664. No. 1.**

**207667. No. 4.**

**207665. No. 2.**

**207668. No. 5.**

**207666. No. 3.**

**207669. TAXUS CUSPIDATA Sieb & Zucc.** Taxaceae.

Originally from Shikoku Island.

**207670 to 207676.**

From Canada. Presented by O. A. Bradt, Vineland Station, Ontario. Received Apr. 20, 1953.

**207670 to 207674. PRUNUS PERSICA (L.) Batsch.** Amygdalaceae.

**Peach.**

**207670. Envoy.** Tree.

**207673. No. 39082.** Tree.

**207671. Somervee.** Trees.

**207674. No. 370246.** Scions.

**207672. Vesper.** Tree.

**207675 and 207676. VITIS VINIFERA L.** Vitaceae.

**European grape.**

**207675. No. 37023.** Cuttings and plants.

**207676. No. 37034.** Cuttings and plants.

**207677 to 207715. IPOMOEA BATATAS (L.) Lam. Convolvulaceae.  
Sweetpotato.**

From Cuba. Roots collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Apr. 20, 1953.

**207677 to 207705. Pinar del Río Province. April 1953.**

207677. No. 1. *Special Boniato*. San José. Skin purple; flesh cream colored.

207678. No. 4. *Mulato*. Market, Artemisa. Skin pinkish; flesh white.

207679. No. 5. *Aparecido*. Las Mangas. Skin light pink; flesh white.

207680. No. 6. *Bolo Colorado*. Puebla Nuevo. Skin red; flesh white.

207681. No. 15. *Colorado*. Herradura. Skin purple; flesh white.

207682. No. 17. *Bolo Colorado*. Herradura. Skin light purplish red; flesh white.

207683. No. 19. *Cristalino Bolo*. Jaqua. Skin light reddish purple; flesh white.

207684. No. 20. *Ovas*. Skins red and white.

207685. No. 23. *Bolo Cristalino*. Cangre. Skin purple; flesh white.

207686. No. 27. *Manila Blanco*. Sumidero. Skin light pink; flesh white.

207687. No. 29. *Gobierno*. Portales.

207688. No. 30. *Negro Parado*. Portales. Skin light red; flesh white.

207689. No. 31. *Manila Blanco*. Portales. Skin and flesh white.

207690. No. 32. *Guane Blanco*. Guane. Skin and flesh white.

207691. No. 37. *Charicera*. Mendoza. Skin dark pink; flesh white.

207692. No. 38. *Maleta Blanco*. Mendoza. Skin and flesh white.

207693. No. 39. *Pinar del Río Red*. Near Pinar del Río. Skin purple; flesh white.

207694. No. 43. *Guanero*. Río Sequito. Skin and flesh white.

207695. No. 44. *Cristalino Bolo*. North of Pinar del Río. Skin red; flesh white.

207696. No. 48. *Aparecido*. North of Pinar del Río. Skin light pink; flesh white.

207697. No. 55. *Cristalino Bolo*. Puerto Esperanza. Skin purplish red; flesh white.

207698. No. 56. *Manila Blanco*. Puerto Esperanza. Skin light pink; flesh white.

207699. No. 57. *Choricera*. Puerto Esperanza.

207700. No. 59. *Manila Blanco*. Near Puerto Esperanza. Skin light pink; flesh white.

207701. No. 73. *Rancho Crespo*. Charcones.

207702. No. 75. *Ramon Leon*. Bahía Honda. Skin purplish red; flesh white.

207703. No. 76. *Mani*. Bahía Honda. Skin and flesh white.

207704. No. 77. *San Pedro Colorado*. Bahía Honda. Skin pink; flesh white.

207705. No. 78. *Bonito*. Mercedita. Skin red; flesh white.



## 207677 to 207715—Continued

207706 to 207715. Havana Province. April 1953.

207706. No. 81. *Picadito*. Vereda Nueva. Skin red; flesh white.

207707. No. 163. *Paulino Blanco*. Skin and flesh white.

207708. No. 164. *La Marina*. Batabanó. Skin purple; flesh white.

207709. No. 165. *Isle of Pines*. Batabanó. Skin red; flesh white.

207710. No. 167. *Alcantara*. Near Sugidero de Batabanó. Skin red; flesh white.

207711. No. 169. *Tapaste*. Skin pink; flesh white.

207712. No. 170. *Negro Lindo*. *Tapaste*. Skin red; flesh cream colored.

207713. No. 172. *Alquizar*. Herminia Farm, Hershey. Skin purple; flesh white.

207714. No. 173. *Caraballo Red*. Caraballo. Skin purple; flesh white.

207715. No. 176. *Alquizar*. Güines. Skin and flesh white.

## 207716 to 207719.

From Korea. Seeds presented by Col. C. O. Totman, U. S. Army. Received Apr. 21, 1953.

Collected from the west coast of Korea north of Seoul in vicinity of Imjin River.

207716. CASSIA MIMOSOIDES L. Caesalpiniaceae.

207717 and 207718. LESPEDEZA BICOLOR Turcz. Fabaceae.

Shrub bushclover.

207717. No. 1.

207718. No. 2.

207719. LESPEDEZA sp.

207720. RUBUS sp. Rosaceae.

From Switzerland. Plants presented by the Station Federale D'Essais Viticoles, Lausanne. Received Apr. 21, 1953.

*Romy*.

207721 to 207724. DIOSCOREA spp. Dioscoreaceae.

From the Union of South Africa. Tubers presented by Scherag (Pty) Ltd., Johannesburg, Transvaal. Received Apr. 22, 1953.

207721. DIOSCOREA sp.

No. 33.

207722. DIOSCOREA sp.

No. 34.

207723. DIOSCOREA sp.

No. 35.

207724. DIOSCOREA sp.

No. 36.

207725. TRIFOLIUM PRATENSE L. Fabaceae.

Red clover.

From Uruguay. Seeds presented by the American Embassy, Montevideo. Received Apr. 22, 1953.

*La Estuanzela*.

**207726. IPOMOEA BATATAS (L.) Lam. Convolvulaceae.****Sweetpotato.**

From Cuba. Tubers collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Apr. 29, 1953.

No. 26. Pinar del Río.

**207727. CAPSICUM FRUTESCENS L. Solanaceae.****Redpepper.**

From India. Seeds presented by the Indian Council of Agricultural Research, New Delhi. Received Apr. 24, 1953.

Culture No. 1402.

**207728 to 207762. IPOMOEA BATATAS (L.) Lam. Convolvulaceae.****Sweetpotato.**

From Cuba. Seeds collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Apr. 27, 1953.

From the Agricultural Experiment Station, Santiago de las Vegas. Original source Cuba, unless otherwise noted.

207728. No. 7. *Finca Sardineus*, 5 miles east from Candelaria, Pinar del Río.

207729. No. 82. *Vegas, Havana*. Skin white; flesh white.

207730. No. 83. *Alquízar*. *Alquízar*. Skin purple; flesh cream colored.

207731. No. 84. No. 3. Agricultural Experiment Station, Río Piedras, Puerto Rico. Flesh yellow.

207732. No. 85. *Especial*. *Madruga*. Skin and flesh white.

207733. No. 86. *Georgia Bunch*. Agricultural Experiment Station, Río Piedras, Puerto Rico. Skin and flesh yellow.

207734. No. 87. *Argollilla*. *Quemado de Güines*. Skin and flesh white.

207735. No. 88. *Diamantino Palido*. *Quemado de Güines*. Skin pink; flesh white.

207736. No. 89. *Amarillo*. Agricultural Experiment Station, Río Piedras, Puerto Rico. Skin white; flesh orange.

207737. No. 90. *Campanario*. *Morón*. Skin and flesh red.

207738. No. 91. *Picadito Blanco*. *San Antonio de los Baños*. Skin and flesh white.

207739. No. 92. *L5LSU*. Agricultural Experiment Station, Río Piedras, Puerto Rico. Skin and flesh white.

207740. No. 93. *Guanabacoa*. *Guanabacoa*. Skin red; flesh white.

207741. No. 95. *Camagueyano*. *Placetas*. Skin red; flesh white.

207742. No. 96. *Papa*. *Litiecito*. Skin and flesh white.

207743. No. 97. *Diamantino Blanco*. *Güines*. Skin white; flesh light yellow.

207744. No. 98. *Pedio*. *Nueva Paz*. Skin and flesh white.

207745. No. 99. *Casanova*. *Abrens*. Skin and flesh white.

207746. No. 100. *Guantanamo*. *Guantanamo*. Skin red; flesh light yellow.

207747. No. 101. *Pe Plejo de Lola*. *Quemado de Güines*. Skin and flesh white.

207748. No. 102. *Moya*. *Quemado de Güines*. Skin and flesh white.

## 207728 to 207762—Continued

207749. No. 103. *Negro Lindo Morado*. Nueva Paz. Skin red; flesh light yellow.
207750. No. 104. *Custatmo Blanco*. Gluemado de Güines. Skin and flesh white.
207751. No. 105. *Cartagena*. Abreus. Skin white; flesh light yellow.
207752. No. 106. *Bolu de Casabe*. Morón. Skin red; flesh white.
207753. No. 107. *Tripa de Jutía*. Placetas. Skin wine; flesh light yellow.
207754. No. 108. *Almendron*. Station Mava del Rosario. Skin red; flesh white.
207755. No. 109. *Siboney*. (Origin unknown.) Skin red; flesh white.
207756. No. 110. *Padron*. Encrucijada. Skin red; flesh white.
207757. No. 111. *Martinez Colorado*. Santiago de las Vegas. Skin red; flesh white.
207758. No. 112. *Mamey*. Placetas. Skin white; flesh orange.
207759. No. 113. *Gordo*. Bejucal. Skin red; flesh white.
207760. No. 114. *M. Hernandez*. (Origin unknown.) Skin red; flesh light yellow.
207761. No. 115. *Cristalino*. Gluemado de Güines. Skin red; flesh white.
207762. No. 116. *Negro Lindo*. Nueva Paz. Skin red; flesh very light yellow.

## 207763 to 207767.

From Italy. Seeds presented by Prof. Adelmo Panella, Instituto Di Agronomia Generale, Perugia, Umbria and Perugia. Received Apr. 27, 1953.

- 207763 and 207764. *HEDYSARUM CORONARIUM* L. Fabaceae. Sulla.
207763. Sicily.
207764. The Marches.
207765. *LOTUS CORNICULATUS* L. Fabaceae. Birdsfoot trefoil.  
Forlì.
207766. *TRIFOLIUM INCARNATUM* L. Fabaceae. Crimson clover.  
Perugia.
207767. *TRIFOLIUM SQUARROSUM* L.  
Bologna.

## 207768 to 207774.

From Israel. Seeds presented by the Government Agricultural Experiment Station, Nve-Yaar. Received Apr. 27, 1953.

207768. *DACTYLIS GLOMERATA* L. Poaceae. Orchard grass.  
C 39 M.
207769. *FESTUCA ARUNDINACEA* Schreb. Poaceae. Fescue.  
A 171 M.
207770. *HORDEUM BULBOSUM* L. Poaceae. Grass.  
A 51 M.
207771. *ORYZOPSIS HOLCIFORMIS* (Bieb.) Hack. Poaceae.  
B 172 M.

## 207768 to 207774—Continued

207772. *ORYZOPSIS MILIACEA* (L.) Benth. & Hook.

G 142 M.

207773 and 207774. *PSORALEA BITUMINOSA* L. Fabaceae.

Scurf-pea.

207773. D 92 M. Spreading type.

207774. C 92 M. Bushy type.

207775. *MEDICAGO SATIVA* L. Fabaceae.

Alfalfa.

From England. Seeds presented by Elsoms (Spalding) Ltd., Spalding, Lincolnshire. Received Apr. 27, 1953.

*Lucerne W. 268.*207776 to 207790. *GOSSYPIUM*. Malvaceae.

Cotton.

From Sudan. Seeds presented by the Ministry of Agriculture, Cotton Breeding Section, Khartoum North. Received Apr. 27, 1953.

207776. Okinawa × Ats 29.

207784. T 18/50 S.

207777. ANCB 4/52 S.

207785. T 22/50 S.

207778. ANCC 14/52 S.

207786. T 23/50 S.

207779. ANCC 65/52 S.

207787. T 25/44 S.

207780. ANCC 67/50 S.

207788. T 25/50 S.

207781. ANCC 68/47 S.

207789. T 40/50 S (1).

207782. T 18/44 S.

207790. T 40/50 S (2).

207783. T 18/45 S.

207791 to 207799. *PHALARIS COERULESCENS* Desf. Poaceae.

From Australia. Seeds presented by Dr. William Hartley, Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Received Apr. 27, 1953.

Originally collected by J. F. Miles and C. Donald from places indicated.

207791. C. P. I. No. 14070. Italy.

207792. C. P. I. No. 14146. Near Thebes, Greece.

207793. C. P. I. No. 14415. Roadside near Beja, Portugal.

207794. C. P. I. No. 14416. Near Villafranca, Portugal.

207795. C. P. I. No. 14422. Near Villafranca, Portugal.

207796. C. P. I. No. 14423. Near St. Martinho, Portugal.

207797. C. P. I. No. 14691. Edge of irrigation channel at Allal Tazi, Morocco.

207798. C. P. I. No. 14692. Roadside, 20 kms. southeast of Meknès, Morocco.

207799. C. P. I. No. 15109. Near Rispeacia, Italy.

## 207800 to 207810.

From Mexico. Roots collected by H. S. Gentry, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Apr. 27, 1953.

207800. *DIOSCOREA BARTLETTII* Morton. Dioscoreaceae.

No. 12570. Five miles north of Palmar Rubber Experiment Station, Veracruz. Apr. 14, 1953. Roots small, roundish.



**207800 to 207810—Continued**

**207801 to 207803.** *DIOSCOREA COMPOSITA* Hemsl.

**207801.** No. 12569. East of Tuxtepec, Oaxaca and Chiltepec, Oaxaca. Apr. 12, 1953.

**207802.** No. 12571. Palmar, Veracruz. Apr. 14, 1953.

**207803.** No. 12572. *Barbasco*. Tierra Blanca, Veracruz. Apr. 15, 1953.

**207804.** *DIOSCOREA* sp.

No. 12563. Rio Grande de Santiago, Nayarit. Roots 8 to 20 pounds in weight.

**207805.** *DIOSCOREA* sp.

No. 12564. Jalcocotán, Nayarit. Roots about 1 inch in diameter.

**207806.** *DIOSCOREA* sp.

No. 12564. Córdoba, Veracruz. Small branched roots.

**207807.** *DIOSCOREA CONVULVULACEA* Cham. & Schlecht.

No. 12566. Tinajas, Veracruz. Apr. 11, 1953. Roots disciform.

**207808.** *DIOSCOREA* sp.

No. 12567. Three miles west of Tinajas, Veracruz. Apr. 10, 1953. Roots with yellow flesh, splayed.

**207809.** *DIOSCOREA* sp.

No. 12574. Twenty miles southeast of Jalapa, Veracruz. Apr. 15, 1953. Roots yellow, 2 to 2½ feet long, splayed.

**207810.** *MANFREDA* sp. *Amaryllidaceae*.

No. 12568. Three miles west of Tinajas, Veracruz. Apr. 10, 1953.

**207811 to 207835.**

From Cuba. Seeds collected by Dr. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Apr. 29, 1953.

Collected in 1953.

**207811 to 207823.** From Pinar del Río Province.

**207811.** *CAJANUS CAJAN* (L.) Druce. *Fabaceae*.

**Pigeonpea.**

No. 80. Mariel. Apr. 12. Large pods.

**207812.** *CANAVALIA* sp. *Fabaceae*.

No. 2. San José. Apr. 8.

**207813 to 207817.** *GOSSYPIUM*. *Malvaceae*.

**Cotton.**

**207813.** No. 16. Near Herradura. Apr. 8. Shrub 8 feet high.

**207814.** No. 36. Mendoza. Apr. 9. Small tree 15 feet high.

**207815.** No. 45. San Luis. Apr. 10. Tree 15 feet tall.

**207816.** No. 49. Four miles north of Pinar del Río. Apr. 10. Shrub 5 feet high.

**207817.** No. 61. Near San Vicente. Apr. 11. Shrub 8 feet tall.

**207818.** *IPOMOEA* sp. *Convolvulaceae*.

No. 10. Near Soroa. Apr. 8.

**207819.** *IPOMOEA* sp.

No. 21. Near Pinar del Río. Apr. 9.

**207820.** *IPOMOEA* sp.

No. 33. Near Guane. Apr. 9. Flowers white with pink throat.

## 207811 to 207835—Continued

## 207811 to 207823—Continued

207821. *IPOMOEA* sp.

No. 35. Guane. Apr. 9. Flowers white.

207822. *IPOMOEA* sp.

No. 41. Rio Feo. Apr. 10. Flowers deep pink.

207823. *IPOMOEA* sp.

No. 60. Near San Vicente. Apr. 11.

207824. *ABELMOSCHUS ESCULENTUS* (L.) Moench. Malvaceae. Okra.

No. 117. Santiago de las Vegas. Apr. 13. Dwarf strain.

207825 to 207831. *NICOTIANA TABACUM* L. Solanaceae. Common tobacco.

From Pinar del Río Province. Apr. 8 to 12.

207825. No. 18. Herradura.

207828. No. 44. San Luis.

207826. No. 25. Near Sumidero.

207829. No. 52. Viñales.

207827. No. 28. Portales.

207830. No. 69. Havanensis.

207831. No. 74. Charcones.

207832. *PHASEOLUS VULGARIS* L. Fabaceae. Common bean.  
(No data.)207833. *RHYNCHOSIA* sp. Fabaceae.

No. 50. Four miles north of Pinar del Río. Apr. 10.

207834. *RHYNCHOSIA* sp.

No. 54. San Cayetano, Pinar del Río. Apr. 11.

207835. *VIGNA CYLINDRICA* (L.) Skeels. Fabaceae.

No. 13. Near Soroa, Pinar del Río. Apr. 8.

207836 to 207842. *SORGHUM ALMUM* Parodi. Poaceae.

From Argentina. Seeds collected by A. F. Swanson, Institute of Inter-American Affairs. Received Apr. 28, 1953.

From Castelar station, near Buenos Aires.

207836. Sel. A 32.

207840. Sel. E 22.

207837. Sel. C 4.

207841. Sel. 29.

207838. Sel. C 17.

207842. Sel. 33.

207839. Sel. E 12.

207843 to 207858.

From India. Seeds presented by the Indian Agricultural Research Institute, New Delhi. Received Apr. 28, 1953.

207843 to 207848. *SECALE CEREALE* L. Poaceae. Rye.

207843. A 206.

207846. No. 362. E. C. 1950.

207844. Assam

207847. E. C. 1951.

207845. Russian rye.

207848. E. C. 1952.

207849. *SOLANUM HISPIDUM* Pers. Solanaceae.

From Dehra Dun.

207850. *SOLANUM INCANUM* L.207851. *SOLANUM INDICUM* L.

From Pachmarhi, Madhya Pradesh.

## 207843 to 207858—Continued

207852. *SOLANUM KHASIANUM* C. B. Clarke.

From Almora, Kumaun Hills.

207853. *SOLANUM NIGRUM* L.207854. *SOLANUM TORVUM* Sw.207855. *SOLANUM VERBASCIFOLIUM* L.

From Saharanpur.

207856. *SOLANUM XANTHOCARPUM* Schrad. & Wendl.207857 and 207858. *VETIVERIA ZIZANIODES* (L.) Nash. Poaceae.

207857. No. 1.

207858. No. 2.

## 207859 to 207864.

From Kenya. Seeds presented by the Pasture Research Officer, Department of Agriculture, Nairobi. Received Apr. 28, 1953.

207859. *ANDROPOGON INSCULPTUS* Hochst. Poaceae.207860. *BOTHRIOCHLOA GLABRA* (Roxb.) A. Camus. Poaceae.207861. *CYMBOPOGON POSPISCHILII* Hubbard. Poaceae.207862. *EULALIA GENICULATA* Stapf. Poaceae.207863. *HETEROPOGON CONTORTUS* (L.) Beauv. Poaceae.207864. *THEMEDA TRIANDRA* Forsk. Poaceae.207865 to 207875. *RICINUS COMMUNIS* L. Euphorbiaceae.

Castorbean.

From Peru. Seeds collected by Edgar R. Heim, SCIPA, Institute of Inter-American Affairs, Lima. Received Apr. 28, 1953.

207865. *Chozo*.207871. *La Roja*.207866. *Gigante*.207872. *Marron Oscuro*.207867. *La Blanca*.207873. *Piojo del Diablo*.207868. *La Chocolate*.207874. *Silvestre Gris* (wild gray).207869. *La Molina Hybrid No. 1*.207875. *Simar*.207870. *La Negra*.207876 to 207920. *HIBISCUS* spp. Malvaceae.

From Florida. Plants growing at the Everglades Experiment Station, Belle Glade. Numbered Apr. 29, 1953.

Originally from Cuba.

207876 to 207918. *HIBISCUS CANNABINUS* L.

Kenaf.

207876 to 207882. Introduced into Cuba from El Salvador.

207876. G 861.

207880. G 2353.

207877. G 948.

207881. G 2360.

207878. G 959.

207882. G 2443.

207879. G 1006.

207883. Variety J. Introduced into Florida by Ed Henriquez, Vero Beach, Fla.

**207876 to 207920—Continued****207876 to 207918—Continued****207884 to 207893. OFAR Selections.**

207884. IX72.	207889. IX114.
207885. IX78.	207890. IX152.
207886. IX110.	207891. IX162.
207887. IX112.	207892. IX169.
207888. IX113.	207893. IX172.

**207894 to 207918.** Introduced into Florida by Ed Henriquez, Vero Beach, Fla.

207894. Variety A.	207907. Y23.
207895. Variety C.	207908. Y30.
207896. Variety D.	207909. Y32.
207897. Variety E.	207910. Y38.
207898. Variety F.	207911. Y54.
207899. Variety G.	207912. Y57.
207900. Variety H.	207913. Y58.
207901. Variety I.	207914. Y64.
207902. Variety HC.	207915. Y65.
207903. Y9.	207916. Y66.
207904. Y11.	207917. Y71.
207905. Y17.	207918. Y85.
207906. Y21	

**207919 and 207920. HIBISCUS SABDARIFFA L.**

**Roselle.**

**207919. G648.** Introduced into Cuba from French Equatorial Africa.

**207920. Variety L.** Introduced into Florida by Ed Henriquez.

**207921. MEDICAGO ARBOREA L. Fabaceae.**

**Tree alfalfa.**

From Chile. Seeds collected by A. F. Swanson, Institute of Inter-American Affairs. Received Apr. 29, 1953.

From the Experimental Station of the Sociedad Nacional de Agricultura, Paine.

**207922. STROPHANTHUS sp. Apocynaceae.**

From French Guinea. Seeds presented by A. Pitot Telimele, through Joseph Monachino, New York Botanical Garden, New York, New York. Received Apr. 29, 1953.

Closely related to *S. sarmentosus*; rich in glucosides. Received as *S. glabriflorus*, an apparently unpublished name.

**207923 to 207941.**

From the Union of South Africa and Turkey. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Apr. 29, 1953.

Unless otherwise stated seeds were collected in Cape Province, the Union of South Africa.

**207923. ASTRAGALUS sp. Fabaceae.**

No. 1290. Above Witsand Bay on the Cape Peninsula. Nov. 29, 1952.



**207923 to 207941—Continued**

**207924.** *ECHINOCHLOA HOLUBII* Stapf. Poaceae.

No. 1566. Twenty-eight miles south of Kroonstad, Orange Free State. Jan. 6, 1953.

**207925.** *MEDICAGO HISPIDA* var. *APICULATA* (Willd.) Urb. Fabaceae.  
**Burclover.**

No. 1075. Near Karacali, Mugla, Turkey. Oct. 16, 1952.

**207926.** *PAPPEA CAPENSIS* Eckl. & Zeyh. Poaceae.

No. 1368. Douglas Heights, northwest of Grahamstown. Dec. 8, 1952.

**207927.** *PENNISSETUM CILIARE* (L.) Link. Poaceae.

No. 1229. Twelve miles southwest of Beaufort West. Nov. 18, 1952.

**207928.** *PHALARIS ANGUSTA* Nees. Poaceae.

No. 1289. Cape Peninsula. Nov. 29, 1952. Annual.

**207929.** *POA* spp. (Mixture.) Poaceae.

No. 566. Base of Tosik Mountain, Erzurum, Turkey. Sept. 13, 1952.

**207930 to 207934.** *THEMEDA TRIANDRA* Forsk. Poaceae.

**207930.** No. 1429. Five miles northeast of Ladysmith, Natal. Dec. 21, 1952.

**207931.** No. 1448. University of Natal, Natal. Dec. 25, 1952.

**207932.** No. 1500. Near Amalfi, west of Kokstad. Jan. 2, 1953.

**207933.** No. 1502. Near Amalfi, west of Kokstad. Jan. 2, 1953.

**207934.** No. 1527. Between Nandes Nek and Rhodes. Jan. 3, 1953.

**207935.** *THEMEDA* sp.

No. 1367. Douglas Heights, northwest of Grahamstown. Dec. 8, 1952.

**207936.** *TRIFOLIUM GLOMERATUM* L. Fabaceae.

No. 1302. Kirstenbosch Botanical Garden. Dec. 1, 1952.

**207937.** *TRIFOLIUM CAMPESTRE* Schreb.

No. 1303. Kirstenbosch Botanical Garden. Dec. 1, 1952.

**207938.** *TRIFOLIUM BURCHELLIANUM* Ser.

No. 1546. Four miles west of Lady Grey. Jan. 4, 1953.

**207939.** *VICIA SATIVA* L. Fabaceae. **Common vetch.**

No. 1240. Near Darling. Nov. 21, 1952.

**207940.** *VICIA* sp.

No. 1304. Kirstenbosch Botanical Garden. Dec. 1, 1952.

**207941.** *VICIA DASYCARPA* Ten.

No. 1083. Delaman State Farm, Mugla, Turkey. Oct. 17, 1952.

**207942 and 207943.**

From Guatemala. Seeds collected by H. S. Gentry, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Apr. 29, 1953.

**207942.** *CHAMAEDOREA* sp. Phoenicaceae. **Palm.**

No. 12547. San Sebastián, Retalhuleu. Mar. 13, 1953.

**207943.** *PASSIFLORA* sp. Passifloraceae.

No. 12550. Capriche Grande, Suchitepéquez. Mar. 13, 1953.

## 207944 to 207971.

From the Union of South Africa. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils and Agricultural Engineering, Beltsville, Md. Received Apr. 29, 1953.

Collected in 1952 from Cape Province unless otherwise stated.

207944. *ACACIA MOLLISSIMA* Willd. Mimosaceae.

No. 1482. Natal, 2,500 feet altitude. Dec. 30.

207945. *ALBUCA* sp. Liliaceae.

No. 1380. Gordonsville, north of Bethesda. Dec. 10.

207946. *ALLOTEROPSIS* sp. Poaceae.

No. 1485. Cathedral Peak area of Drakensberg Mountains, Natal. Dec. 31.

207947. *BRUNSVIGIA RADULOSA* Herb. Amaryllidaceae.

No. 1457. Near Howick Falls, Natal. Dec. 26.

207948. *CYRTANTHUS* sp. Amaryllidaceae.

No. 1453. Near Karkloof River, Natal. Dec. 26.

207949 and 207950. *EHRHARTA CALYCINA* J. E. Sm. Poaceae.

207949. No. 1336. Near Grahamstown. Dec. 6.

207950. No. 1361. Fish River valley, northwest of Grahamstown.

207951. *ERAGROSTIS ROBUSTA* Stent. Poaceae.

No. 1346. Between Grahamstown and Cold Spring. Dec. 6.

207952. *ERAGROSTIS CURVULA* (Schrud.) Nees. Weeping lovegrass.

No. 1551. Fourteen miles northwest of Smithfield, Orange Free State. Jan. 5, 1953.

207953 and 207954. *HARPECHLOA FALX* (L.f.) Kuntze. Poaceae.

207953. No. 1505. Near Amalfi, west of Kokstad. Jan. 2, 1953.

207954. No. 1533. Four miles northwest of Barkly East. Jan. 4, 1953.

207955. *HELICOTRICHON* sp. Poaceae.

No. 1383. Gordonsville, north of Bethesda. Dec. 10.

207956. *NENAX MICROPHYLLA* (Sond.) Salter. Rubiaceae.

No. 1366. Fish River valley, northwest of Grahamstown. Dec. 8. Small browse shrub.

207957. *ORNITHOGALUM* sp. Liliaceae.

No. 1408. Fourteen miles northeast of Parys, Orange Free State. Dec. 12.

207958. *PANICUM DEUSTUM* Thunb. Poaceae.

No. 1464. Natal. Dec. 28.

207959. *PHALARIS ARUNDINACEA* L. Poaceae.

Red canary grass.

No. 1419. Pretoria. Dec. 18.

207960 to 207967. *PHALARIS TUBEROSA* L.

Large canary grass.

From Prinshof Experiment Station collections, Pretoria, Transvaal. Dec. 18.

207960. No. 1420.

207964. No. 1424a.

207961. No. 1421.

207965. No. 1425.

207962. No. 1422.

207966. No. 1426.

207963. No. 1423.

207967. No. 1427.

## 207944 to 207971—Continued

207968. *PHALARIS TUBEROSA* var. *STENOPTERA* (Hack.) Hitchc.  
Harding grass.

No. 1428.

207969. *PSORALEA* sp. Fabaceae.

No. 1329. Thirty-four miles east of Nysna. Dec. 4.

207970. *TEPHROSIA* sp. Fabaceae.

No. 1365. Fish River Valley, northwest of Grahamstown. Dec. 8.

207971. *TRISTACHYA HISPIDA* (L.) Schum. Poaceae.

No. 1344. Between Grahamstown and Cold Spring. Dec. 6.

207972. *TRIFOLIUM PRATENSE* L. Fabaceae. Red clover.

From France. Seeds presented by the Stations Federales D'Essais Agricoles, Lausanne. Received May 4, 1953.

207973. *SORGHUM VULGARE* Pers. Poaceae.

From Argentina. Seeds presented by Victor Spiaggi, Rosario. Received May 4, 1953.

Originally from commercial Kafir developed in Sáenz Peña, Eva Peron Province.

## 207974 to 208027.

From the Union of South Africa. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Apr. 30, 1953.

Collected in 1953 in Transvaal unless otherwise stated.

- 207974 and 207975. *ALLOTERPIS SEMIALATA* (R. Br.) Hitchc. Poaceae.

207974. No. 1609. Nine miles southeast of Machadodorp. Jan. 11.

207975. No. 1744. Eight miles from Grahamstown, Cape Province. Jan. 15.

207976. *ANDROPOGON EUCOMUS* Nees. Poaceae.

No. 1620. Eight miles west of Nelspruit. Jan. 12.

207977. *ANDROPOGON INSCULPTUS* Hochst.

No. 1696. Kruger National Park. Jan. 15.

207978. *CHLORIS GAYANA* Kunth. Poaceae.

Rhodes grass.

No. 1625. Eight miles west of Nelspruit. Jan. 12.

207979. *CHLORIS MYRIOSTACHYA* Hochst.

No. 1729. Between Punda Maria and Pafuri, Kruger National Park. Jan. 21.

207980. *DIGITARIA ERIANTHA* var. *STOLONIFERA* Stapf. Poaceae.

No. 1681. Kruger National Park. Jan. 16.

207981. *DIGITARIA TRICHOLAENOIDES* Stapf.

No. 1610. Nine miles southeast of Machadodorp. Jan. 11.

207982. *ERAGROSTIS CAPENSIS* (Thunb.) Trin. Poaceae.

No. 1611. Nine miles east of Machadodorp. Jan. 11.

207983. *EUSTACHYS PASPALOIDES* (Vahl) L. & M. Poaceae.

No. 1643. Between Pretorius Kop and Skukuza, Kruger National Park. Jan. 13.

## 207974 to 208027—Continued

207984. *TRITOMA NORTHIAE* (Baker.) Skeels. Liliaceae.

No. 1526a. Below Nandes Nek on western slopes of Drakensberg, Cape Province. Jan. 3.

207985. *LAPEYROUSIA GRANDIFLORA* Baker. Iridaceae.

No. 1649. Pretorius Kop. Jan. 14.

207986. *LOTONONIS BAINESII* Baker. Fabaceae.

No. 1772. Prinshof Experiment Station collections, Pretoria. Jan. 15.

207987. *HAEMANTHUS* sp. Amaryllidaceae.

No. 1669. Vicinity of Pretorius Kop, Kruger National Park. Jan. 15.

207988. *HARPECHLOA FALX* (L.f.) Kuntze. Poaceae.

No. 1745. Near Grahamstown, Cape Province. Jan. 15.

207989. *HYAENANCHE GLOBOSA* (Gaertn.) Lam. Euphorbiaceae.

No. 1257. Near Van Rhynsdorp, Cape Province. Nov. 23, 1952.

207990 to 208008. *PANICUM COLORATUM* L. Poaceae.

207990. No. 1741. Eight miles south of Warmbaths. Jan. 23.

207991 to 208008. Prinshof Experiment Station collections, Pretoria. Jan. 15.

207991. No. 1749.

208000. No. 1759.

207992. No. 1750.

208001. No. 1761.

207993. No. 1751.

208002. No. 1763.

207994. No. 1752.

208003. No. 1764.

207995. No. 1754.

208004. No. 1765.

207996. No. 1755.

208005. No. 1767.

207997. No. 1756.

208006. No. 1768.

207998. No. 1757.

208007. No. 1769.

207999. No. 1758.

208008. No. 1770.

208009 to 208011. *PANICUM MAXIMUM* Jacq.

Guinea grass.

208009. No. 1621. Eight miles west of Nelspruit. Jan. 12.

208010. No. 1692. Vicinity of Pretorius Kop, Kruger National Park. Jan. 15.

208011. No. 1719. Ten miles northeast of Punda Maria, Kruger National Park. Jan. 20.

208012 to 208016. *PANICUM STAFFIANUM* Fourc.

Prinshof Experiment Station collections, Pretoria. Jan. 15.

208012. No. 1748.

208015. No. 1766.

208013. No. 1753.

208016. No. 1771.

208014. No. 1760.

208017. *PANICUM* sp.

No. 1762. Prinshof Experiment Station collection. Jan. 15.

208018. *PELARGONIUM ZONALE* (L.) L' Her. Geraniaceae.

No. 1743. Grahamstown, Cape Province. Jan. 15.

208019. *SETARIA NIGRIROSTRIS* (Nees.) Dur. & Schinz. Poaceae.

No. 1612. Nine miles east of Machadodorp. Jan. 11.



**207974 to 208027—Continued**

**208020.** *SETARIA SPHACELATA* (Schum.) Stapf & Hubb.

No. 1630. Kruger National Park. Jan. 12.

**208021.** *SETARIA WOODII* Hack.

No. 1693. Vicinity of Pretorius Kop, Kruger National Park. Jan. 15.

**208022.** *SETARIA* sp.

No. 1682. Sixteen miles southeast of Pretorius Kop, Kruger National Park. Jan. 16.

**208023 and 208024.** *THEMEDA TRIANDRA* Forsk. Poaceae.

**208023.** No. 1633. Between Pretorius Kop and Skukuza. Jan. 14.

**208024.** No. 1665. Vicinity of Pretorius Kop, Kruger National Park.

**208025 and 208026.** *TRICHOLAENA REPENS* (Willd.) Hitchc. Poaceae.

**208025.** No. 1599. Nine miles west of Krankhurstspruit. Jan. 11.

**208026.** No. 1746. Near Grahamstown, Cape Province. Jan. 15.

**208027.** *TRISTACHYA HISPIDA* (L.) Schum. Poaceae.

No. 1747. Near Grahamstown, Cape Province. Jan. 15.

**208028 to 208043.** *IPOMOEA BATATAS* (L.) Lam. Convolvulaceae.  
**Sweetpotato.**

From Cuba. Tubers collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Apr. 30, 1953.

Collected Apr. 20 to 24, 1953.

**208028.** No. 199. Near Coliseo, Matanzas. Skin purplish red; flesh white.

**208029 to 208043.** From Santa Clara Province.

**208029.** No. 204. *Camaguey*. Near Aguada de Pasajeros. Skin white; flesh cream colored.

**208030.** No. 206. *Boniata Estrellado*. Near Ariza. Skin light reddish purple; flesh yellow-cream.

**208031.** No. 207. Market, Sagua la Grande. Skin purple; flesh rich cream colored.

**208032.** No. 208. *Ceiba Colorado*. Near Sagua la Grande. Skin reddish purple; flesh cream colored.

**208033.** No. 209. *Ceiba Colorado*. Near Sagua la Grande. Skin reddish purple; flesh cream colored.

**208034.** No. 216. Near Caibarién. Skin reddish purple; flesh deep cream colored.

**208035.** No. 219. Palmarejo. Skin purple; flesh white.

**208036.** No. 220. *Marabú*. Market, Trinidad. Skin reddish purple; flesh light cream colored.

**208037.** No. 221. Rio Honda. Skin flesh-colored; flesh yellowish orange.

**208038.** No. 222. Rio Honda. Skin light flesh-colored; flesh orange.

**208039.** No. 223. Rio Honda. Skin pink-purple; flesh cream colored.

**208040.** No. 226. Market, Cienfuegos. Skin red; flesh cream colored.

**208041.** No. 227. Market, Cienfuegos. Skin flesh colored to light tan; flesh light cream colored.

**208042.** No. 244. *Cumanayagua No. 1*. Cumanayagua. Skin red; flesh white.

**208043.** No. 245. *Bruto*. Cumanayagua. Skin red; flesh white.

## 208044 to 208046.

From Turkey. Bulbs collected by Dr. Baki Kasapligil, University of Ankara, Ankara. Received May 1, 1953.

208044. *GALANTHUS* sp. Amaryllidaceae.

No. 1368.

208045. *GALANTHUS GRAECUS* Orph.

No. 1369.

208046. *ORNITHOGALUM EXSCAPUM* Ten. Liliaceae.

No. 1370.

208047 to 208060. *IPOMOEA BATATAS* (L.) Lam. Convolvulaceae.  
Sweetpotato.

From Cuba. Tubers collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 4, 1953.

Collections made Apr. 24 and 25, 1953.

208047 to 208057. From Santa Clara Province.

208047. No. 246. *Barajagua*. Barajagua. Skin and flesh cream colored.

208048. No. 247. *Africano*. Barajagua. Skin red; flesh cream colored.

208049. No. 248. *Cresna*. El Hoyo. Flesh cream colored.

208050. No. 249. *Mamey*. El Hoyo. Skin and flesh orange.

208051. No. 250. *Mamey*. Skin purple; flesh orange.

208052. No. 251. *Ranchuelo*. Esperanza. Skin purple; flesh cream colored.

208053. No. 252. *Lagunilla*. Ranchuelo. Skin purple; flesh orange.

208054. No. 253. *Cruces*. Skin cream colored.

208055. No. 256. *Camaguey Amarillo*. Santo Domingo. Skin red; flesh cream colored.

208056. No. 257. *Nigus Amarillo*. Santo Domingo. Skin red; flesh dark cream colored.

208057. No. 258. Market, Santo Domingo. Skin reddish purple; flesh white.

208058. No. 259. Colón, Matanzas. Skin red; flesh white.

208059. No. 260. *Peña*. Market, Jovellanos, Matanzas. Skin reddish purple; flesh yellow.

208060. No. 262. Market, Matanzas, Matanzas. Skin purplish red; flesh yellow.

## 208061 to 208076.

From Turkey. Seeds collected by Resul Turkmen, Igdir, Kars. Received May 4, 1953.

208061. *AGROPYRON* sp. Poaceae.

No. 8. Igdir.

208062. *AGROPYRON* sp.

No. 13. Orkof.

208063. *ASTER* sp. Asteraceae.

No. 6. Igdir.

**208061 to 208076—Continued**

208064. BETA sp. Chenopodiaceae.

No. 14. Turkeli.

208065. BROMUS sp. Poaceae.

No. 1. Igdir.

208066. BROMUS sp.

No. 16. Agri.

208067. CLEMATIS sp. Ranunculaceae.

No. 3. Igdir.

208068. CYNANCHUM ACUTUM L. Asclepiadaceae.

No. 6. Igdir.

208069. INULA sp. Asteraceae.

No. 15. Koyii.

208070. LINUM GRANDIFLORUM Desf. Linaceae.

No. 17. Yerinole.

208071 and 208072. MEDICAGO SATIVA L. Fabaceae.

Alfalfa.

208071. No. 9. Igdir.

208072. No. 5. Igdir.

208073. MELILOTUS OFFICINALIS (L.) Lam. Fabaceae. Yellow sweetclover.

No. 12. Igdir.

208074. STIPA sp. Poaceae.

No. 7. Igdir.

208075. STIPA sp.

No. 10. Igdir.

208076. TEUCRIUM sp. Menthaceae.

No. 2. Igdir.

**208077 to 208113.**

From the Union of South Africa. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 4, 1953.

Collected in Cape Province unless otherwise stated.

208077. ALLOTEROPSIS SEMIALATA (R. Br.) Hitchc. Poaceae.

No. 1512. Between Mount Fletcher and Eland's Height. Jan. 3, 1953.

208078 to 208081. ANDROPOGON APPENDICULATUS Nees. Poaceae.

208078. No. 1487. Drakensberg Mountains, Natal. Dec. 30, 1952.

208079. No. 1503. Near Amalfi, west of Kokstad. Jan. 2, 1953.

208080. No. 1537. Six miles southeast of Lady Grey. Jan. 4, 1953.

208081. No. 1542. Four miles west of Lady Grey. Jan. 4, 1953.

208082. ARISTIDA OBTUSA Delile. Poaceae.

No. 1377. Near Middleburg. Dec. 10, 1952.

208083. CHLORIS GAYANA Kunth. Poaceae.

Rhodes grass.

No. 1518. Between Mount Fletcher and Eland's Height. Jan. 3, 1953.

208084. DIGITARIA TRICHOLAENOIDES Stapf. Poaceae.

No. 1517. Between Mount Fletcher and Eland's Height. Jan. 3, 1953.

**208077 to 208113—Continued**

208085. *EHRHARTA CALYCINA* J. E. Sm. Poaceae.

No. 1342. Between Grahamstown and Cold Spring. Dec. 6, 1952.

208086. *ERAGROSTIS BICOLOR* Nees. Poaceae.

No. 1391. Twelve miles south of Colesberg. Dec. 11, 1952.

208087 to 208089. *ERAGROSTIS CHLOROMELAS* Steud.

208087. No. 1374. Fish River Station. Dec. 9, 1952.

208088. No. 1403. Twenty miles north of Brandfort, Orange Free State. Dec. 11, 1952.

208089. No. 1535. Twenty-three miles northwest of Barkly East. Jan. 4, 1953.

208090 to 208092. *ERAGROSTIS CURVULA* (Schräd.) Nees.

**Weeping lovegrass.**

208090. No. 1515. Between Mount Fletcher and Eland's Height. Jan. 3, 1953.

208091. No. 1523. On slopes of Drakensberg, below Nandes Nek. Jan. 3, 1953.

208092. No. 1539. One mile west of Lady Grey. Jan. 4, 1953.

208093 and 208094. *ERAGROSTIS LEHMANNIANA* Nees.

208093. No. 1392. Four miles north of Colesberg. Dec. 11, 1952.

208094. No. 1540. Jan. 4, 1953.

208095. *ERAGROSTIS SUPERBA* Peyr.

No. 1397. Twenty miles southwest of Trompsburg, Orange Free State. Dec. 11, 1952.

208096. *ERIOSEMA SALIGNUM* E. Mey. Fabaceae.

No. 1347. Between Grahamstown and Cold Spring. Dec. 6, 1952.

208097. *EULALIA VILLOSA* (Thunb.) Nees. Poaceae.

No. 1516. Between Mount Fletcher and Eland's Height. Jan. 3, 1953.

208098. *EUSTACHYS PASPALOIDES* (Vahl) L. & M. Poaceae.

No. 1318. Ten miles east of Albertinia. Dec. 4, 1952.

208099. *FESTUCA LONGIPES* Stapf. Poaceae.

No. 1495. Near Kokstad. Jan. 2, 1953.

208100 and 208101. *FINGERHUTHIA SESLERIAEFORMIS* Nees. Poaceae.

208100. No. 1532. Four miles northwest of Barkly East. Jan. 4, 1953.

208101. No. 1544. Four miles west of Lady Grey. Jan. 4, 1953.

208102. *HYPARRHENIA HIRTA* (L.) Stapf. Poaceae.

No. 1480. Near Estcourt, Natal. Dec. 30, 1952.

208103. *HYPOXIS MULTICEPS* Buching. Liliaceae.

No. 1434. Southeast of Estcourt, Natal. Dec. 21, 1952.

208104. *ORNITHOGALUM THYRSOIDES* Jacq. Liliaceae.

No. 1250. Twelve miles north of Piquetberg. Nov. 22, 1952.

208105. *PANICUM DEUSTUM* Thunb. Poaceae.

No. 1353. Six miles northwest of Grahamstown. Dec. 8, 1952.

208106. *PANICUM NATALENSE* Hochst.

No. 1484. Cathedral Peak area of Drakensberg Mountains, Natal. Dec. 31, 1952.



**208077 to 208113—Continued**

208107. *PANICUM STAPFIANUM* Fourc.

No. 1554. Orange Free State. Jan. 5, 1953.

208108. *PENNISETUM MACROURUM* Trin. Poaceae.

No. 1508. Near Amalfi, west of Kokstad. Jan. 2, 1953.

208109 and 208110. *SETARIA FLABELLATA* Stapf. Poaceae.

208109. No. 1504. Near Amalfi, west of Kokstad. Jan. 2, 1953.

208110. No. 1514. Between Mount Fletcher and Eland's Height. Jan. 3, 1953.

208111. *SETARIA LINDENBERGIANA* (Nees) Stapf.

No. 1412. Near Pretoria, Transvaal. Dec. 15, 1952.

208112. *SETARIA NIGRIROSTRIS* (Nees) Dur. & Schinz.

No. 1507. Near Amalfi, west of Kokstad. Jan. 2, 1953.

208113. *SETARIA PERENNIS* Hack.

No. 1413. Hoornsnek, near Pretoria, Transvaal. Dec. 15, 1952.

**208114 to 208117.**

From Afghanistan. Seeds collected by R. C. Moncure, Foreign Agricultural Service, United States Department of Agriculture, Washington, D. C. Received May 4, 1953.

208114. *CICER ARIETINUM* L. Fabaceae.

Chickpea.

Market, Guandahar.

208115. *MEDICAGO SATIVA* L. Fabaceae.

Alfalfa.

Nod-i-ali Experiment Farm, Helmand Valley.

208116. *PINUS* sp. Pinaceae.

Kandahar.

208117. *TRIFOLIUM RESUPINATUM* L. Fabaceae.

Persian clover.

Nod-i-ali Experiment Farm, Helmand Valley.

**208118 to 208151.**

From the Union of South Africa. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 4, 1953.

Collected in 1953; from Transvaal unless otherwise stated.

208118. *ANDROPOGON EUCOMUS* Nees. Poaceae.

No. 1600. Nine miles west of Krankhurstspruit. Jan. 11.

208119. *ANTHEPHORA PUBESCENS* Nees. Poaceae.

No. 1592. Between Hamanskraal and Rust de Winter. Jan. 9.

208120. *ANDROPOGON INSCULPTUS* Hochst. Poaceae.

No. 1586. Near Pinaars River. Jan. 9.

208121. *ASPARAGUS COOPERI* Baker. Liliaceae.

No. 1584. Near Pinaars River. Jan. 9.

208122. *BRICHIARIA BRIZANTHA* (Hochst.) Stapf. Poaceae.

No. 1616. Twenty-three miles east of Machadodorp. Jan. 12.

208123. *BEWSIA BIFLORA* (Hack.) Goosens. Poaceae.

No. 1670. Pretorius Kop, Kruger National Park. Jan. 15.

## 208118 to 208151—Continued

208124. *CHLORIS MYRIOSTACHYA* Hochst. Poaceae.

No. 1699. Kruger National Park. Jan. 16.

208125. *DACTYLOCTENIUM GEMINATUM* Hack. Poaceae.

No. 1672. Sixteen miles southeast of Pretorius Kop, Kruger National Park. Jan. 16.

208126. *ENNEAPOGON SCOPARIUS* Stapf. Poaceae.

No. 1695. Between Ship Mountain and Pretorius Kop, Kruger National Park. Jan. 15.

208127. *ERAGOSTIS CAPENSIS* (Thunb.) Trin. Poaceae.

No. 1631. Kruger National Park. Jan. 12.

208128. *ERAGOSTIS CURVULA* (Schrud.) Nees. Weeping lovegrass.

No. 1618. Twenty-three miles east of Machadodorp. Jan. 12.

208129. *ERAGOSTIS HETEROMERA* Stapf.

No. 1624. Eight miles west of Nelspruit. Jan. 12.

208130. *ERAGOSTIS LAPPULA* Nees.

No. 1627. Vicinity of Pretorius Kop, Kruger National Park. Jan. 12.

208131. *ERAGOSTIS MARGARITACEA* Stapf.

No. 1676. Sixteen miles southeast of Pretorius Kop, Kruger National Park. Jan. 16.

208132. *ERAGOSTIS SUPERBA* Peyr.

No. 1671. Sixteen miles southeast of Pretorius Kop, Kruger National Park. Jan. 16.

208133. *EUSTACHYS PASPALOIDES* (Vahl) L. & M. Poaceae.

No. 1613. Watersval Oder. Jan. 11.

208134. *FINGERHUTHIA AFRICANA* Lehm. Poaceae.

No. 1694. Between Ship Mountain and Pretorius Kop, Kruger National Park. Jan. 15.

208135. *ISCHAEMUM GLAUCOSTACHYUM* Stapf. Poaceae.

No. 1725. Pafuri, Kruger National Park. Jan. 21.

208136. *LOTUS DISCOLOR* E. Mey. Fabaceae.

No. 1605. Five miles west of Belfast. Jan. 11.

208137. *LOUDETIA FLAVIDA* (Stapf) Hubb. Poaceae.

No. 1591. Between Hamanskraal and Rust de Winter. Jan. 9.

208138. *PANICUM DEUSTUM* Thunb. Poaceae.

No. 1679. Sixteen miles southeast of Pretorius Kop, Kruger National Park. Jan. 16.

208139. *PANICUM MAXIMUM* Jacq.

Guinea grass.

No. 1640. Between Pretorius Kop and Skukuza, Kruger National Park. Jan. 13.

208140. *PANICUM* sp.

No. 1567. Twenty-eight miles south of Kroonstad, Orange Free State. Jan. 6.

208141. *PENNISETUM CILIARE* (L.) Link. Poaceae.

No. 1582. Near Pinaars River. Jan. 9.

## 208118 to 208151—Continued

208142. *POGONARTHRIA SQUARROSA* (Licht.) Pilger. Poaceae.

No. 1680. Sixteen miles southeast of Pretorius Kop, Kruger National Park. Jan. 16.

208143. *RHYNCHELYTRUM SETIFOLIUM* (Stapf) Chiov. Poaceae.

No. 1606. Five miles west of Belfast. Jan. 11.

208144. *SETARIA FLABELLATA* Stapf. Poaceae.

No. 1628. Vicinity of Pretorius Kop, Kruger National Park. Jan. 12.

208145. *SETARIA SPHACELATA* (Schum.) Stapf. & Hubb.

No. 1662. Vicinity of Pretorius Kop, Kruger National Park. Jan. 15.

208146. *SETARIA WOODII* Hack.

No. 1667. Vicinity of Pretorius Kop, Kruger National Park. Jan. 15.

208147. *SPOROBOLUS NITENS* Stent. Poaceae.

No. 1684. Near Malelane, Kruger National Park. Jan. 16.

208148. *CHLORIS* sp. Poaceae.

No. 1675. Sixteen miles southeast of Pretorius Kop, Kruger National Park. Jan. 16. Received as *Tetrapogon mossambicensis*, an apparently unpublished name.

208149. *TRICHLOLAENA MONACHNE* (Trin.) Stapf & Hubb. Poaceae.

No. 1632. Vicinity of Pretorius Kop, Kruger National Park. Jan. 12.

208150. *TRICHLOLAENA REPENS* (Willd.) Hitchc.

No. 1598. South of Hamanskraal. Jan. 9.

208151. *TRISTACHYA* sp. Poaceae.

No. 1604. Five miles west of Belfast. Jan. 11.

## 208152 to 208202.

From the Union of South Africa. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 5, 1953.

Collected in 1952 from Cape Province unless otherwise stated.

208152. *ALBUCA PACHYCHLAMYS* Baker. Liliaceae.

No. 1420. Two miles southeast of Standerton, Transvaal. Dec. 20.

208153. *ALLOTEROPSIS SEMIALATA* (R. Br.) Hitchcock. Poaceae.

No. 1341. Between Grahamstown and Cold Spring. Dec. 6.

208154. *ARGYROLOBIMUM STIPULACEUM* Eck. & Zey. Fabaceae.

No. 1348. Between Grahamstown and Cold Spring. Dec. 6.

208155. *ASCLEPIAS ROTUNDIFOLIA* Mill. Asclepiadaceae.

No. 1268. Twenty miles south of Clanwilliam. Nov. 25.

208156. *CELTIS* sp. Ulmaceae.

No. 1977. Prinshof Experiment Station, Pretoria, Transvaal. Mar. 10, 1953.

208157. *CHLORIS VIRGATA* Sw. Poaceae.

No. 1400. Two miles south of Brandfort, Orange Free State. Dec. 11.

208158. *DOLICHOS GIBBOSUS* Thunb. Fabaceae.

No. 1326. East of George. Dec. 4.

**208152 to 208202—Continued**

208159. *ERAGROSTIS CAPENSIS* (Thunb.) Trin. Poaceae.  
No. 1324. George. Dec. 4.
208160. *ERAGROSTIS CHLOROMELAS* Steud.  
No. 1389. Eight miles north of Middleburg. Cape Province. Dec. 11.
- 208161 and 208162. *ERAGROSTIS CURVULA* (Schrad.) Nees.  
Weeping lovegrass.  
208161. No. 1247. Nov. 21.  
208162. No. 1295a. Between Worcester and Wellington. Nov. 30.
208163. *ERAGROSTIS CURVULA* var. *CONFERTA* Nees.  
No. 1313. Between Swellendam and Riversdale. Dec. 3.
- 208164 and 208165. *ERAGROSTIS CURVULA* (Schrad.) Nees.  
Weeping lovegrass.  
208164. No. 1345. Between Grahamstown and Cold Spring. Dec. 6.  
208165. No. 1375. Fish River Station. Dec. 9.
208166. *ERAGROSTIS OBTUSA* Munro.  
No. 1314. Between Swellendam and Riversdale. Dec. 3.
208167. *EHRHARTA CALYCINA* J. E. Sm. Poaceae.  
No. 1249. Piquetberg. Nov. 21.
208168. *EHRHARTA ERECTA* Lam.  
No. 1309. Near Swellendam. Dec. 3.
208169. *HORDEUM COMPRESSUM* Griseb. Poaceae.  
No. 1373. Fish River Station. Dec. 9.
208170. *HYPARRHENIA HIRTA* (L.) Stapf. Poaceae.  
No. 1294. Near Worcester. Nov. 20.
208171. *LEBECKIA CYTISOIDES* Thunb. Fabaceae.  
No. 1267. South of Clanwilliam. Nov. 25.
208172. *LESSERTIA BRACHYSTACHYA* DC. Fabaceae.  
No. 1328. Nine miles west of Mynna. Dec. 4.
208173. *MELILOTUS INDICA* (L.) All. Fabaceae. Sweetclover.  
No. 1260. Nov. 22.
208174. *OLEA* sp. Oleaceae.  
No. 2007. Near Pretoria, Transvaal. Mar. 12, 1953.
208175. *ORNITHOGALUM CAUDATUM* Jacq. Liliaceae.  
No. 1323. Between Great Brak River and Blanco. Dec. 4.
208176. *PANICUM STAFFIANUM* Fourc. Poaceae.  
No. 1399. Two miles south of Brandfort, Orange Free State. Dec. 11.
208177. *PENTASCHISTIS ANGUSTIFOLIA* (Nees) Stapf. Poaceae.  
No. 1235. Near Darling. Nov. 21.
208178. *PENTZIA INCANA* (Thunb.) O. Ktze. Asteraceae.  
No. 1356. Six miles northwest of Grahamstown. Dec. 8.
208179. *POA PRATENSIS* L. Poaceae. Kentucky bluegrass.  
No. 1327. East of George. Dec. 4.



## 208152 to 208202—Continued

208180. *PSORALEA SPICATA* L. Fabaceae.

No. 1308. Between Swellendam and Riversdale. Dec. 3.

208181. *RHYNCHELYTRUM SETIFOLIUM* (Stapf) Chiov. Poaceae.

No. 1310. Between Swellendam and Riversdale. Dec. 3.

208182. *SETARIA FLABELLATA* Stapf. Poaceae.

No. 1370. Douglas Heights. Dec. 9.

208183. *SETARIA NEGLECTA* DeWit.

No. 1354. Six miles northwest of Grahamstown. Dec. 8.

208184 to 208186. *SETARIA NIGRIROSTRIS* (Nees) Dur. & Schinz.

208184. No. 1432. Eight miles southeast of Estcourt, Natal. Dec. 21.

208185. No. 1491. Near Pietermaritzburg, Natal. Jan. 1, 1953.

208186. No. 1494. Near Kokstad. Jan. 2, 1953.

208187 and 208188. *SETARIA SPHACELATA* (Schum.) Stapf & Hubb.

208187. No. 1427. Twenty-three miles northeast of Ladysmith, Natal. Dec. 21.

208188. No. 1337. Near Grahamstown. Dec. 6.

208189. *SETARIA WOODII* Hack.

No. 1430. Five miles northeast of Ladysmith, Natal. Dec. 21.

208190. *SORGHUM VERTICILLIFLORUM* (Steud.) Stapf. Poaceae.

No. 1462. Sugarcane field at Mposa, Natal. Dec. 27.

208191 and 208192. *SPOROBOLUS FIMBRIATUS* Nees. Poaceae.

208191. No. 1307. Near Swellendam. Dec. 3.

208192. No. 1549. Fourteen miles northwest of Smithfield, Orange Free State. Jan. 5, 1953.

208193. *STIPA DREGEANA* Steud. Poaceae.

No. 1351. Six miles northwest of Grahamstown. Dec. 8.

208194 and 208195. *TETRACHNE DREGEI* Nees. Poaceae.

208194. No. 1376. Near Middelburg. Dec. 10.

208195. No. 1547. Fourteen miles northeast of Smithfield, Orange Free State. Jan. 5, 1953.

208196 to 208199. *THEMEDA TRIANDRA* Forsk. Poaceae.

208196. No. 1242. Near Darling. Nov. 20.

208197. No. 1393. Twenty miles southwest of Trompsburg, Orange Free State. Dec. 11.

208198. No. 1497. Near Kokstad. Jan. 2, 1953.

208199. No. 1524. Below Nandes Nek. Jan. 3, 1953.

208200. *TRACHYPOGON CAPENSIS* (Thunb.) Trin. Poaceae.

No. 1311. Between Swellendam and Riversdale. Dec. 3.

208201 and 208202. *TRIFOLIUM BURCHELLIANUM* Ser. Fabaceae.

208201. No. 1349. Near Grahamstown. Dec. 6.

208202. No. 1521. Between Mount Fletcher and Eland's Height. Dec. 6.

**208203 and 208204. GLYCINE MAX (L.) Merrill. Fabaceae.**  
**Soybean.**

From Colombia. Seeds presented by the Universidad Nacional, Palmira.  
Received May 5, 1953.

**208203. Aksarben.**

**208204. Java.**

**208205 to 208212. IPOMOEA BATATAS (L.) Lam. Convolvulaceae.**  
**Sweetpotato.**

From Cuba. Tubers collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 6, 1953.

Collected Apr. 18 to 21, 1953.

**208205. No. 186. Market Máximo, Gómez, Matanzas. Skin purplish red; flesh cream colored.**

**208206. No. 187. Garden, Máximo Gómez, Matanzas. Skin purplish red; flesh cream colored.**

**208207. No. 191. *Argallita*. Sierró Morena, Santa Clara. Skin and flesh white.**

**208208. No. 192. *Camaguey*. Sierra Morena, Santa Clara. Skin deep purplish red; flesh white.**

**208209. No. 200. Near Coliseo, Matanzas. Skin reddish purple; flesh light yellow.**

**208210. No. 201. Near Colón, Matanzas. Skin and flesh white.**

**208211. No. 202. Market, Colón, Matanzas. Skin reddish purple; flesh creamy yellow.**

**208212. No. 210. *Argallita Roja*. Near Sagua la Grande, Santa Clara. Skin reddish purple; flesh light yellow.**

**208213 to 208277.**

From the Union of South Africa. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 6, 1953.

Collected in 1952 in Cape Province unless otherwise stated.

**208213. ALLOTEROPSIS SEMIALATA (R. Br.) Hitchc. Poaceae.**

No. 1451. North of Howick Falls, Natal. Dec. 26.

**208214. ERAGROSTIS CURVULA var. CONFERTA Nees. Poaceae.**

No. 1363. Fish River valley northwest of Grahamstown. Dec. 8.

**208215. ATRIPLEX SEMIBACCATA R. Br. Chenopodiaceae.**

No. 1352. Six miles northwest of Grahamstown. Dec. 8.

**208216. BRACHYPODIUM DISTACHYON Beauv. Poaceae.**

No. 1241. Near Darling. Oct. 21.

**208217. BRIZA MAXIMA L. Poaceae.**

No. 1248. Piquetberg. Nov. 21.

**208218. CHLORIS GAYANA Kunth. Poaceae.**

**Rhodes grass.**

No. 1312. Between Swellendam and Riversdale. Dec. 3.

**208219. CHLORIS VIRGATA Sw.**

No. 1552. Fourteen miles northwest of Smithfield, Orange Free State.  
Jan. 5, 1953.

## 208213 to 208277—Continued

208220. *CYNODON DACTYLON* (L.) Pers. Poaceae. Bermuda grass.  
No. 13896. Twenty miles southwest of Trompsburg, Orange Free State.  
Dec. 11.
208221. *DIGITARIA TRICHOLAENOIDES* Stapf. Poaceae.  
No. 1570. Twenty-eight miles south of Kroonstad, Orange Free State.  
Jan. 6, 1953.
208222. *LEPTOCHLOA FUSCA* (L.) Kunth. Poaceae.  
No. 1362. Douglas Heights, northwest of Grahamstown. Dec. 8.
- 208223 and 208224. *EHRHARTA CAPENSIS* Thunb. Poaceae.  
208223. No. 1245. Piquetberg Mt. Nov. 21.  
208224. No. 1280. Between Paarl and Worcester. Nov. 28.
- 208225 and 208226. *ERAGROSTIS CHLOROMELAS* Steud. Poaceae.  
208225. No. 1501. Near Amalfi, west of Kokstad. Jan. 2, 1953.  
208226. No. 1509. Near Amalfi, west of Kokstad. Jan. 2, 1953.
- 208227 and 208228. *ERAGROSTIS CURVULA* var. *CONFERTA* Nees.  
208227. No. 1384. Gordonsville, north of Bethesda. Dec. 10.  
208228. No. 1390. Eight miles north of Middelburg. Dec. 11.
208229. *ERAGROSTIS DENUDATA* Hack.  
No. 1350. Between Grahamstown and Cold Spring. Dec. 6.
208230. *ERAGROSTIS CAPENSIS* (Thunb.) Trin.  
No. 1343. Between Grahamstown and Cold Spring. Dec. 6.
- 208231 and 208232. *ERAGROSTIS CURVULA* (Schrud.) Nees.  
Weeping lovegrass.  
208231. No. 1364. Douglas Heights, northwest of Grahamstown. Dec. 8.  
208232. No. 1531. Four miles northwest of Barkly East. Jan. 4, 1953.
208233. *ERIOCEPHALUS PUBESCENS* DC. Asteraceae.  
No. 1227. Near Victoria West. Nov. 18.
208234. *FESTUCA CAPRINA* Nees. Poaceae.  
No. 1522. Eland's Heights. Jan. 3, 1953.
208235. *FINGERHUTHIA SESLERIAEFORMIS* Nees. Poaceae.  
No. 1534. Fourteen miles northwest of Barkly East. Jan. 4, 1953.
208236. *GREWIA ROBUSTA* Burch. Tiliaceae.  
No. 1357. Fish River valley, north of Grahamstown. Dec. 8.
- 208237 and 208238. *HARPECHLOA FALX* (L.f.) Ktze. Poaceae.  
208237. No. 1454. Vicinity of Karkloof River, north of Howick Falls, Natal. Dec. 26.  
208238. No. 1486. Cathedral Peak area, Drakensberg Mountains, Natal. Dec. 31.
208239. *INDIGOFEA BIFRONS* E. Mey. Fabaceae.  
No. 1382. Gordonsville north of Bethesda. Dec. 10.
208240. *KNIPHOFIA UVARIA* (L.) Hook. Liliaceae.  
No. 1253. Grey's Pass southwest of Pitrusdal. Nov. 21.

## 208213 to 208277—Continued

208241. *LESSERTIA LINEARIS* DC. Fabaceae.  
No. 1319. Ten miles east of Albertinia. Dec. 4.
208242. *OLEA CHRYSOPHYLLA* Lam. Oleaceae.  
No. 1263. Near Van Rhynsdorp. Nov. 24.
- 208243 and 208244. *PANICUM DEUSTUM* Thunb. Poaceae.  
208243. No. 1335. Thirty-eight miles northeast of Port Elizabeth. Dec. 5.  
208244. No. 1471. Between Hluhluwe Game Reserve and Hluhluwe Holt, Natal. Dec. 28.
208245. *PANICUM MAXIMUM* Jacq. Guinea grass.  
No. 1334. Thirty-eight miles northeast of Port Elizabeth. Dec. 5.
- 208246 and 208247. *PANICUM STAPFIANUM* Fourc.  
208246. No. 1372. Fish River Station. Dec. 9.  
208247. No. 1360. Douglas Heights, northwest of Grahamstown. Dec. 8.
208248. *PANICUM* sp.  
No. 1357a. Fish River valley, north of Grahamstown. Dec. 8.
- 208249 to 208251. *PENNISETUM SPHACELATUM* (Nees) Dur. & Schinz. Poaceae.  
208249. No. 1519. Between Mount Fletcher and Eland's Height. Jan. 3, 1953.  
208250. No. 1525. Below Nandes Nek. Jan. 3, 1953.  
208251. No. 1543. Four miles west of Lady Grey. Jan. 4, 1953.
208252. *PENNISETUM THUNBERGII* Kunth.  
No. 1498. Near Franklin. Jan. 2, 1953.
208253. *PENTASCHISTIS ANGUSTIFOLIA* (Nees) Stapf. Poaceae.  
No. 1252. Twelve miles north of Piquetberg. Nov. 22.
208254. *PENTASCHISTIS THUNBERGII* Stapf.  
No. 1238. Near Darling. Nov. 20.
208255. *PLAGIOCHLOA UNIOLOE* (L.f.) Adamson & Sprague. Poaceae.  
No. 1234. Near Darling. Nov. 20.
208256. *POLYPOGON MONSPELIENSIS* (L.) Desf. Poaceae.  
No. 1233. Near Darling. Nov. 20.
208257. *PSORALEA HIRTA* L. Fabaceae.  
No. 1236. Near Darling. Nov. 20.
208258. *PTERONIA GLAUCA* Thunb. Asteraceae.  
No. 1228. Near Victoria West in the Karroo bush veld. Nov. 18.
208259. *TRICHOLAENA REPENS* (Willd.) Hitchc. Poaceae.  
No. 1404. Twelve miles south of Ventersburg, Orange Free State. Dec. 12.
208260. *RHYNCHELYTRUM SETIFOLIUM* (Stapf.) Chiov. Poaceae.  
No. 1340. Between Grahamstown and Cold Spring. Dec. 6.
208261. *RHYNCHOSIA CARIBAEA* DC. Fabaceae.  
No. 1331. Groote River Pass, east of Nysna. Dec. 4.



## 208213 to 208277—Continued

208262. *SETARIA PERENNIS* Hack. Poaceae.  
No. 1569. Twenty-eight miles south of Kroonstad, Orange Free State.  
Jan. 6, 1953.
208263. *SETARIA SPHACELATA* (Schum.) Stapf & Hubb.  
No. 1490. Farm at Edendale, near Pietermaritzburg, Natal. Jan. 1,  
1953.
- 208264 and 208265. *SUTHERLANDIA FRUTESCENS* (L.) R. Br. Fabaceae.  
208264. No. 1246. Piquetberg. Nov. 21.  
208265. No. 1286. Brewel's Kloof near Worcester. Nov. 30.
208266. *TEPHROSIA CAPENSIS* (Jacq.) Pers. Fabaceae.  
No. 1330. Groote River Pass, east of Nysna. Dec. 4.
- 208267 and 208268. *THEMEDA TRIANDRA* Forsk. Poaceae.  
208267. No. 1317. Between Albertinia and Mossel Bay. Dec. 4.  
208268. No. 1381. Gordonsville, north of Bethesda. Dec. 10.
208269. *TRIFOLIUM* sp. Fabaceae.  
No. 1562. Ten miles north of Winburg, Orange Free State. Jan. 6,  
1953.
208270. *TRISTACHYA HISPIDA* (L.) Schum. Poaceae.  
No. 1435. Eight miles southeast of Estcourt, Natal. Dec. 21.
208271. *TRISTACHYA* sp.  
No. 1496. Near Kokstad. Jan. 2, 1953.
208272. *TRISTACHYA* sp.  
No. 1506. Near Amalfi, west of Kokstad. Jan. 2, 1953.
208273. *VICIA SATIVA* L. Fabaceae. Common vetch.  
No. 1325. George. Dec. 4.
208274. *WIBORGIA ARMATA* Harv. Fabaceae.  
No. 1261. Twelve miles east of Van Rhynsdorp. Nov. 25.
208275. *WIBORGIA FLEXUOSA* Harv.  
No. 1270. Between Darling and Moorreesburg. Nov. 25.
208276. *WIBORGIA OBCORDATA* Thunb.  
No. 1262. Kobe Mountains, southeast of Van Rhynsdorp. Nov. 24.
208277. *ZORNIA TETRAPHYLLA* Mich. Fabaceae.  
No. 1339. Between Grahamstown and Cold Spring. Dec. 6.
208278. *CITRUS*. Rutaceae.  
From Japan. Seeds presented by the Citrus Experiment Station, Komagoe,  
Shizuoka-ken. Received May 7, 1953.  
*Iyo-mikan.*
208279. *VICIA SATIVA* L. Fabaceae. Common vetch.  
From Turkey. Seeds collected by R. K. Godfrey, Agricultural Explorer,  
Bureau of Plant Industry, Soils, and Agricultural Engineering, Belts-  
ville, Md. Received May 7, 1953.  
No. 901. Fifty-seven miles southwest of Ankara, toward Otlatli. Oct. 9,  
1952.

**208280. ORYZOPSIS COERULESCENS (Desf.) Hack. Poaceae.**

From Cyprus. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 7, 1953.

Seeds obtained in 1952 from Dr. Kenneth Jones, Director of Agriculture, Nicosia.

**208281 to 208307.**

From the Union of South Africa. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 7, 1953.

**208281. ANDROPOGON APPENDICULATUS Nees. Poaceae.**

No. 1561. Ten miles north of Winburg, Orange Free State. Jan. 6, 1953.

**208282. ANTHEPHORA PUBESCENS Nees. Poaceae.**

No. 1565. Twelve miles south of Ventersburg, Orange Free State. Jan. 6, 1953.

**208283. BRACHIARIA HUMIDICOLA (Rendle) Schweick. Poaceae.**

No. 1460. Vicinity of Karkloof River, north of Howick Falls, Natal. Dec. 26, 1952.

**208284. BROMUS CATHARTICUS Vahl. Poaceae.**

No. 1476. Natal. Dec. 30, 1952.

**208285. CHLORIS GAYANA Kunth. Poaceae.**

Rhodes grass.

No. 1463. Natal. Dec. 27, 1952.

**208286. CYNODON DACTYLON (L.) Pers. Poaceae.**

Bermuda grass.

No. 1479. Near Estcourt, Natal. Dec. 30, 1952.

**208287. DIGITARIA NATALENSIS var. STENTIANA Henr. Poaceae.**

No. 1458. Near Grantsville, Natal. Dec. 27, 1952.

**208288. DIGITARIA TRICHOLAENOIDES Stapf.**

No. 1437. Eight miles southeast of Estcourt, Natal. Dec. 21, 1952.

**208289. DIPLACHNE ELEUSINE Nees. Poaceae.**

No. 1472. In forest at False Bay, Natal. Dec. 29, 1952.

**208290 to 208292. EHRHARTA CALYCINA J. E. Sm. Poaceae.**

208290. No. 1244. Between Darling and Moorreesburg, Cape Province. Nov. 20, 1952.

208291. No. 1281. Between Paarl and Worcester, Cape Province. Nov. 28, 1952.

208292. No. 1315. Between Swellendam and Riversdale, Cape Province. Dec. 3, 1952.

**208293. ERAGROSTIS PLANA Nees. Poaceae.**

No. 2010. Frankenwald Experiment Station. Mar. 10, 1953.

**208294 and 208295. ERAGROSTIS CURVULA (Schrud.) Nees.**

Weeping lovegrass.

208294. No. 2012. Frankenwald Experiment Station. Mar. 10, 1953.

208295. No. 2013. Frankenwald Experiment Station. Mar. 10, 1953.

**208296. IMPERATA CYLINDRICA (L.) Beauv. Poaceae.**

No. 1478. Near Estcourt, Natal. Dec. 30, 1952.

**208281 to 208307—Continued**

208297. *MORAEA* sp. Iridaceae.

No. 1269. Between Darling and Moorreesburg, Cape Province. Nov. 26, 1952.

208298 and 208299. *SETARIA FLABELLATA* Stapf. Poaceae.

208298. No. 1446. Pietermaritzburg, Natal. Dec. 25, 1952.

208299. No. 1558. Ten miles north of Winburg, Orange Free State. Jan. 6, 1953.

208300 and 208301. *SETARIA HOLSTII* Herrm.

208300. No. 1555. Ten miles north of Bloemfontein, Orange Free State. Jan. 5, 1953.

208301. No. 1564. Twelve miles south of Ventersburg, Orange Free State. Jan. 6, 1953.

208302. *SETARIA PALLIDIFUSCA* (Schumach.) Stapf & Hubb.

No. 1475. Natal. Dec. 30, 1952.

208303. *SETARIA GERRARDII* Stapf.

No. 1398. Bloemfontein, Orange Free State. Dec. 11, 1952.

208304. *SETARIA* sp.

No. 1477. Near Estcourt, Natal. Dec. 30, 1952.

208305. *SETARIA FLABELLATA* Stapf.

No. 1541. One mile west of Lady Grey, Cape Province. Jan. 4, 1953.

208306. *SETARIA WOODII* Hack.

No. 1467. Natal. Dec. 28, 1952.

208307. *VICIA BENGHALENSIS* L. Fabaceae.

No. 1237. Near Darling, Cape Province. Nov. 20, 1952.

**208308 to 208317.**

From Cuba. Roots and rhizomes collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 7, 1953.

208308 to 208315. *IPOMOEA BATATAS* (L.) Lam. Convolvulaceae.

**Sweetpotato.**

From the Isle of Pines. Apr. 29, 1953. (Roots.)

208308. No. 293. *La Tumbita*. Skin and flesh white.

208309. No. 294. *Temiento*. *La Tumbita*. Skin deep pink; flesh white.

208310. No. 296. *Mulato*. Presidio Modelo. Skin purplish; flesh white.

208311. No. 297. *Amarillo*. Near Colombia. Skin pink; flesh white.

208312. No. 298. *Blanco*. Near Colombia. Skin white; flesh pale yellow.

208313. No. 299. *Caimanero*. Near Colombia. Skin deep purplish red; flesh white.

208314. No. 307. *40 Days*. El Bobo. Skin pink; flesh white.

208315. No. 314. Santa Barbara. Skin reddish; flesh white.

208316. *COLOCASIA* sp. Araceae.

No. 289. *Malanga*. Near Hershey, Havana. Apr. 28, 1953. Flesh yellow. (Rhizomes.)

208317. *IPOMOEA BATATAS* (L.) Lam. Convolvulaceae.

**Sweetpotato.**

No. 306. *Mongo*. El Bobo, Isle of Pines. Apr. 30, 1953. Skin pink; flesh cream colored. (Roots.)

**208318 to 208354. SOLANUM TUBEROSUM L. Solanaceae. Potato.**

From England. Tubers presented by the National Institute of Agricultural Botany, Cambridge. Received May 8, 1953.

208318. A. 1494.	208337. E. 42.
208319. A. 1680.	208338. F. 109.
208320. A. 1695.	208339. F. 275.
208321. A. 1736.	208340. F. 558.
208322. A. 2077.	208341. F. 580.
208323. C. 68.	208342. F. 610.
208324. C. 111a.	208343. F. 672.
208325. C. 139.	208344. F. 754.
208326. C. 199.	208345. F. 807.
208327. C. 245.	208346. F. 808.
208328. C. 298.	208347. F. 1078.
208329. D. 148.	208348. F. 1121.
208330. D. 151.	208349. F. 1158.
208331. D. 156.	208350. F. 1279.
208332. D. 226.	208351. F. 1407.
208333. D. 364.	208352. F. 1462.
208334. D. 413.	208353. F. 1902.
208335. D. 512.	208354. W. 5/31.
208336. D. 542.	

**208355 to 208362. PSIDIUM GUAJAVA L. Myrtaceae. Guava.**

From India. Seeds presented by Rai Rajrang Bahadur Singh, Lucknow. Received May 8, 1953.

208355. <i>Bahdri Special</i> .	208359. <i>Gole Chakai</i> .
208356. <i>Big Three</i> .	208360. <i>Popular Bhadri</i> .
208357. <i>Chakai Phankidar</i> .	208361. <i>T. P. Pasand</i> .
208358. <i>Chittidar</i> .	208362. Mixed.

**208363 and 208364.**

From Turkey. Bulbs collected by Dr. Baki Kasapligil, University of Ankara, Ankara. Received May 8, 1953.

208363. <i>MUSCARI</i> sp. Liliaceae.
208364. <i>TULIPA GESNERIANA</i> L. Liliaceae.

**208365. FESTUCA ELATIOR L. Poaceae. Meadow fescue.**

From New Zealand. Seeds presented by L. Corkill, Palmerston North. Received May 8, 1953.

Seeds selected from plants that appeared typical of tall fescue as it grows at Palmerston North.

**208366 to 208368. ALLIUM spp. Liliaceae.**

From Cuba. Bulbs collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 8, 1953.

**208366. ALLIUM SCHOENOPRASUM L.**

No. 162. Near Havana. Apr. 14, 1953. Grown by Chinese gardeners.



## 208366 to 208368—Continued

208367. *ALLIUM SATIVUM* L.

Garlic.

No. 183. Market, Cárdenas, Matanzas. Apr. 18, 1953. From Italy.

208368. *ALLIUM CEPA* L.

Onion.

No. 185. Market, Cárdenas, Matanzas. Apr. 18, 1953. From Chile.

208369. *COFFEA* sp. Rubiaceae.

Coffee.

From Ethiopia. Seeds presented by Pierre G. Sylvain, Food and Agriculture Organization of the United Nations, Addis Ababa. Received May 8, 1953.

S.15. *Wolchitte*. Collected at an altitude of about 1900 meters at the village of Dedjeba, on the main highway between Addis Ababa and Jimma.

## 208370 and 208371.

From Tanganyika. Seeds presented by the Pasture Research Officer, Mpwapwa. Received May 8, 1953.

208370. *CROTALARIA MUCRONATA* Desv. Fabaceae.208371. *TEPHROSIA* sp. Fabaceae.

## 208372 to 208417.

From the Union of South Africa. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 11, 1953.

208372. *ANDROPOGON* sp. Poaceae.

No. 1481. Near Estcourt, Natal. Dec. 30, 1952.

208373. *ANDROPOGON* sp.

No. 1295. Brewel's Kloof near Worcester, Cape Province. Nov. 30, 1952.

208374 and 208375. *BRACHIARIA SERRATA* (Thunb.) Stapf. Poaceae.

208374. No. 1452. Vicinity of Karkloof River, north of Howick Falls, Natal. Dec. 26, 1952.

208375. No. 1571. Twenty-eight miles south of Kroonstad, Orange Free State. Jan. 6, 1953.

208376. *DACTYLOCTENIUM GEMINATUM* Hack. Poaceae.

No. 1459. Roadside bank, Mount Zuzemi, Natal. Dec. 27, 1952.

208377. *DIGITARIA ERIANTHA* Steud. Poaceae.

No. 1557. Ten miles north of Winburg, Orange Free State. Jan. 6, 1953.

208378. *DIGITARIA VALIDA* Stent.

No. 1470. Natal. Dec. 28, 1952.

208379 to 208382. *DIGITARIA GLAUCA* Stent.

208379. No. 1371. Douglas Heights, northwest of Grahamstown, Cape Province. Dec. 9, 1952.

208380. No. 1395. Twenty miles southwest of Trompsburg, Orange Free State. Dec. 11, 1952.

208381. No. 1538. One mile west of Lady Grey, Cape Province. Jan. 4, 1953.

208382. No. 1548. Fourteen miles northwest of Smithfield, Orange Free State. Jan. 5, 1953.

## 208372 to 208417—Continued

208383. *EHRHARTA CALYCINA* J. E. Sm. Poaceae.

No. 1385. Gordonsville, north of Bethesda, Cape Province. Dec. 10, 1952.

208384 and 208385. *ERAGROSTIS CHLOROMELAS* Steud. Poaceae.

208384. No. 1559. Ten miles north of Winburg, Orange Free State. Jan. 6, 1953.

208385. No. 2011. Frankenwald Experiment Station. Mar. 10, 1953.

208386 to 208390. *ERAGROSTIS CURVULA* (Schrud.) Nees.

Weeping lovegrass.

208386. No. 1456. Vicinity of Karkloof River, north of Howick Falls, Natal. Dec. 26, 1952.

208387 to 208390. Frankenwald Experiment Station. Mar. 10, 1953.

208387. No. 2015.

208389. No. 2016.

208388. No. 2014.

208390. No. 2017.

208391. *HEMARTHRIA ALTISSIMA* (Poir.) Stapf & Hubb. Poaceae.

No. 1455. Vicinity of Karkloof River, north of Howick Falls, Natal. Dec. 26, 1952.

208392. *HYPARRHENIA HIRTA* (L.) Stapf. Poaceae.

No. 1277. Near Stellenbosch, Cape Province. Nov. 27, 1952.

208393. *HYPOXIS RIGIDULA* Baker. Liliaceae.

No. 1441. Twenty-five miles northwest of Pietermaritzburg, Natal. Dec. 21, 1952.

208394. *HYPOXIS HEMEROCALLIDEA* Fisch. & Mey.

No. 1338. Between Grahamstown and Cold Spring, Cape Province. Dec. 6, 1952.

208395 and 208396. *PANICUM DEUSTUM* Thunb. Poaceae.

208395. No. 1473. In forest at False Bay, Natal. Dec. 29, 1952.

208396. No. 1474. In forest at False Bay, Natal. Dec. 29, 1952.

208397 to 208399. *PANICUM MAXIMUM* Jacq.

Guinea grass.

208397. No. 1461. Mposa, Natal. Dec. 27, 1952.

208398 and 208399. Between Hluhluwe Game Reserve and Hluhluwe Halt, Natal. Dec. 28, 1952.

208398. No. 1465.

208399. No. 1468.

208400 to 208402. *PANICUM STAFFIANUM* Fourc.

208400. No. 1568. Twenty-eight miles south of Kroonstad, Orange Free State. Jan. 6, 1953.

208401. No. 1333. Thirty-eight miles northeast of Port Elizabeth, Cape Province. Dec. 5, 1952.

208402. No. 1394. Twenty miles southwest of Trompsburg, Orange Free State. Dec. 11, 1952.

208403. *PANICUM* sp.

No. 1550. Fourteen miles northwest of Smithfield, Orange Free State. Jan. 5, 1953.

208404. *PHALARIS MINOR* Retz. Poaceae.

No. 1251. Twelve miles north of Piquetberg, Cape Province. Nov. 22, 1952. Annual.

**208372 to 208417—Continued**

**208405.** RHIGOZUM OBOVATUM Burch. Bignoniaceae.

No. 1358. In Fish River valley, north of Grahamstown, Cape Province. Dec. 8, 1952.

**208406.** RHYNCHOSIA SORDIDA (E. Mey.) Schinz. Fabaceae.

No. 1428. Twenty miles northeast of Ladysmith, Natal. Dec. 21, 1952.

**208407 to 208409.** SETARIA NIGRIROSTRIS (Nees) Dur. & Schinz. Poaceae.

**208407.** No. 1450. Vicinity of Karkloof River, north of Howick Falls, Natal. Dec. 26, 1952.

**208408.** No. 1560. Ten miles north of Winburg, Orange Free State. Jan. 6, 1953.

**208409.** No. 1513. Between Mount Fletcher and Eland's Height, Cape Province. Jan. 3, 1953.

**208410 to 208412.** SETARIA SPHACELATA (Schum.) Stapf & Hubb.

**208410.** No. 1440. Eight miles southeast of Estcourt, Natal. Dec. 21, 1952.

**208411.** No. 1466. Between Hluhluwe Game Reserve and Hluhluwe Halt, Natal. Dec. 28, 1952.

**208412.** No. 1572. Twenty-eight miles south of Kroonstad, Orange Free State. Jan. 6, 1953.

**208413 to 208416.** THEMEDA TRIANDRA Forsk. Poaceae.

**208413.** No. 1436. Eight miles southeast of Estcourt, Natal. Dec. 21, 1952.

**208414.** No. 1447. Pietermaritzburg, Natal. Dec. 25, 1952.

**208415.** No. 1469. Between Hluhluwe Game Reserve and Hluhluwe Halt, Natal. Dec. 28, 1952.

**208416.** No. 1573. Twenty-eight miles south of Kroonstad, Orange Free State. Jan. 6, 1953.

**208417.** THEMEDA sp.

No. 1306. Five miles west of Caledon, Cape Province. Dec. 3, 1952.

**208418.** MALUS SYLVESTRIS Mill. Malaceae.

**Apple.**

From Italy. Trees presented by Alfredo Rissi, Ferrara. Received May 12, 1953.

*Abbondanza.*

**208419 to 208473.**

From Nepal. Seeds collected by G. V. Bowers and Goran Knutsson, TCA, Kathmandu. Received May 12, 1953.

**208419.** CORIANDRUM SATIVUM L. Apiaceae.

**Coriander.**

From Pokhara.

**208420 to 208425.** ELEUSINE CORACANA (L.) Gaertn. Poaceae.

**Ragi.**

**208420.** No. 1. From central Nepal.

**208421 to 208425.** From Pokhara.

**208421.** No. 2. From Majeripatan.

**208424.** No. 5.

**208422.** No. 3.

**208425.** No. 6.

**208423.** No. 4.

## 208419 to 208473—Continued

208426 to 208428. FAGOPYRUM ESCULENTUM Moench. Polygonaceae. Buckwheat.

208426. No. 1. From Kathmandu Valley.

208427. No. 2. From Manganghot.

208428. No. 3. From Pokhara.

208429 to 208440. GLYCINE MAX (L.) Merrill. Fabaceae. Soybean.

208429. No. 1. Black. From Kathmandu Valley.

208430. No. 2. Black. From Marsyandi Khola.

208431. No. 3. Brown. From Thonje.

208432. No. 4. Chocolate brown; early variety. From Kathmandu Valley.

208433. No. 5. Chocolate brown; late variety. From Kathmandu Valley.

208434. No. 6. White; late variety. From Kathmandu Valley.

208435. No. 7. Mixed. From Nalma.

208436. No. 8. Mixed. From Nalma.

208437 to 208440. From Pokhara.

208437. No. 9.

208439. No. 11.

208438. No. 10.

208440. No. 12.

208441. GOSSYPIUM. Malvaceae. Cotton.

208442. HORDEUM sp. Poaceae. Barley.

From Pisang.

208443 to 208457. ORYZA SATIVA L. Poaceae. Rice.

208443. *Andi*. From North Pokhara.

208444. *Bahairne I*. From North Pokhara.

208445. *Bahairne II*. From Pokhara.

208446. *Bumful*. From Pokhara.

208447. *Early No. 1*. From Kathmandu Valley.

208448. *Early No. 2*. From Kathmandu Valley.

208449. *Early No. 3*. From Kathmandu Valley.

208450. *Hasa*. From Pokhara.

208451. *Jetho Budho*. From Pokhara.

208452. *Juppa*. From Pokhara.

208453. *Late No. 1*. From central Nepal.

208454. *Late No. 2*. From Kathmandu Valley.

208455. *Marsi*. From Pokhara.

208456. *Mid-season*. From Kathmandu Valley.

208457. *No. 4*. From Majeripatan, Pokhara.

208458. PERILLA FRUTESCENS (L.) Britton. Menthaceae.

208459. PHASEOLUS AUREUS Roxb. Fabaceae.

Mung bean.

208460 and 208461. PHASEOLUS CALCARATUS Roxb.

Rice bean.

208460. *Masyang*.

208461. *Small Masyang*.

208462. PHASEOLUS MUNGO L.

Urd.

208463. PHASEOLUS VULGARIS L.

Common bean.



## 208419 to 208473—Continued

208464. *RICINUS COMMUNIS* L. Euphorbiaceae. Castorbean.  
 208465. *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae. Fenugreek.  
 208466 and 208467. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.

208466. No. 1.

208467. No. 2.

- 208468 to 208473. *ZEA MAYS* L. Poaceae. Corn.

208468. No. 1. From Nepal.

208472. No. 5. From Pokhara.

208469. No. 2. From Ngawal.

208473. No. 6. From Kathman-  
du Valley.

208470. No. 3. From Sankhu.

208471. No. 4. From Majeripatan,  
Pokhara.

- 208474 to 208485. *BRASSICA OLERACEA* var. *BOTRYTIS* L.  
Brassicaceae. Cauliflower.

From the Netherlands. Seeds presented by the Institute for Horticultural  
Crops Improvement, Wageningen. Received May 13, 1953.

208474. *Ve De Slez*. Type A.  
53013.208479. *Snowball Early*. 53020.208475. *Ve De Slez*. Type B.  
53014.208480. *Record Early*. 53021.208481. *Record Medium Early*.  
53022.208476. *Ve De Slez*. Type C.  
53015.208482. *Matines*. 53023.208477. *Erfurter Early*. 53018.208483. *Le Cerf Medium*. 53024.208478. *Snowball Extra Early*.  
53019.208484. *Iglo Late*. 53025.208485. *Flora Blanca Late*. 53026.

## 208486 and 208487.

From France. Seeds presented by Vilmorin-Andrieux, Paris. Received  
May 13, 1953.

208486. *ATRIplex HORTENSIS* L. Chenopodiaceae.

Garden orach.

208487. *CHENOPODIUM BONUS-HENRICUS* L. Chenopodiaceae.208488 to 208523. *ZEA MAYS* L. Poaceae.

Corn.

From Guatemala. Seeds presented by the American Embassy, Guatemala  
City. Received May 13, 1953.

208488. No. 1.

208502. No. 15.

208489. No. 2.

208503. No. 16.

208490. No. 3.

208504. No. 17.

208491. No. 4.

208505. No. 18.

208492. No. 5.

208506. No. 19.

208493. No. 6.

208507. No. 20.

208494. No. 7.

208508. No. 21.

208495. No. 8.

208509. No. 22.

208496. No. 9.

208510. No. 23.

208497. No. 10.

208511. No. 24.

208498. No. 11.

208512. No. 25.

208499. No. 12.

208513. No. 26.

208500. No. 13.

208514. No. 27.

208501. No. 14.

208515. No. 28.

**208488 to 208523—Continued**

- |                 |                 |
|-----------------|-----------------|
| 208516. No. 29. | 208520. No. 33. |
| 208517. No. 30. | 208521. No. 34. |
| 208518. No. 31. | 208522. No. 35. |
| 208519. No. 32. | 208523. No. 36. |

**208524 to 208526. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. Sweetpotato.**

From Cuba. Roots collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 14, 1953.

208524. No. 184. *Boniato Amarillo*. Market, Cárdenas, Matanzas. Skin dark reddish purple; flesh rich cream colored. Apr. 18, 1953.

208525. No. 279. *Choricera*. Roblar Maata, Pinar del Río. Skin light pink; flesh white. Apr. 28, 1953.

208526. No. 280. *Negro Parado*. Pinar del Río. Skin red; flesh white. Apr. 28, 1953.

**208527 to 208531.**

From Mexico. Roots collected by H. S. Gentry, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 14, 1953.

Collected in Veracruz, Apr. 24 and 25, 1953.

**208527 and 208528. DIOSCOREA COMPOSITA Hemsl. Dioscoreaceae.**

208527. No. 12582. Four miles west of Martínez de la Torre.

208528. No. 12588. Sixty miles east of Huauchinango.

**208529. DIOSCOREA sp.**

No. 12587. Twenty miles southwest of Tihuatlan along road to Huauchinango.

**208530. DIOSCOREA sp.**

No. 12588A. Sixty miles east of Huauchinango.

**208531. DIOSCOREA sp.**

(No field notes.)

**208532. CAMELLIA sp. Theaceae.**

From Japan. Cuttings collected by Eikichi Satomi, Higashi-Kanbara-Gori, Niigata Prefecture. Received May 15, 1953.

Received as *Camellia rusticana*, an apparently unpublished name.

**208533 to 208536.**

From Puerto Rico. Roots collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 18, 1953.

**208533. IPOMOEA sp. Convolvulaceae.**

No. 341. Buena Vista Camp, Maricao Forest. May 6, 1953.

**208534 to 208536. From Toro Negro National Forest. May 8, 1953.****208534. IPOMOEA sp.**

No. 371.

**208535. IPOMOEA sp.**

No. 372.

**208536. IPOMOEA sp.**

No. 373.

**208537 to 208553. IPOMOEA BATATAS (L.) Lam. Convolvulaceae.  
Sweetpotato.**

From Puerto Rico. Roots collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 18, 1953.

208537. No. 335. Market, Maracao. May 6.

208538 to 208541. Market, Sabarra Grande. May 6.

208538. No. 345. Skin red; flesh orange.

208539. No. 346. Skin purple; flesh white.

208540. No. 347. Skin coppery; flesh cream colored.

208541. No. 348. Skin and flesh cream colored.

208542. No. 349. *Lorita*. Quebradillas. Skin reddish purple; flesh white.

208543. No. 351. Quebradillas. Skin reddish purple; flesh white.

208544. No. 352. Between Quebradillas and Camuy. Skin bronze; flesh white.

208545. No. 353. Between Quebradillas and Camuy. Skin cream colored; flesh white.

208546. No. 354. Camuy. Skin light red; flesh white.

208547. No. 355. *Continental*. Near Montana. Skin coppery; flesh orange.

208548. No. 358. Yauco. Skin light red; flesh white.

208549. No. 361. Ponce. Skin reddish copper; flesh yellow.

208550. No. 362. Ponce. Skin bronze; flesh cream colored.

208551. No. 363. Ponce. Skin dark purple; flesh white.

208552. No. 377. Market, Mayagüez. Skin red; flesh yellow.

208553. No. 378. Market, Mayagüez. Skin and flesh white.

**208554 to 208558. IPOMOEA BATATAS (L.) Lam. Convolvulaceae.  
Sweetpotato.**

From Puerto Rico. Roots collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 18, 1953.

208554. No. 331. PR No. 3. Marydale canning plant, Isabela. May 5, 1953.

208555. No. 332. *Short Ajoya*. Isabela. May 5, 1953. Skin and flesh white.

208556 and 208557. From market, Aguadilla. May 5, 1953.

208556. No. 323. *Cambray*. Skin creamy bronze; flesh deep cream colored.

208557. No. 324. *Ajoya*. Skin and flesh cream colored.

208558. No. 322. *Cambray*. Market, Aguada. May 5, 1953. Skin reddish bronze; flesh orange.

**208559 to 208561. RUBUS spp. Rosaceae.**

From Puerto Rico. Plants collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 18, 1953.

208559. RUBUS GLAUCUS Benth.

Andes raspberry.

No. 370. Toro Negro National Forest. May 8, 1953.

**208559 to 208561—Continued****208560.** RUBUS ROSAEFOLIUS J.E. Sm.**Roseleaf raspberry.**

No. 340. Maricao Forest. May 6, 1953.

**208561.** RUBUS sp.

No. 380. Maricao Forest. May 6, 1953.

**208562 to 208566.**

From Argentina. Tubers presented by Prof. H. Brucher, Fundacion Miguel Lillo, Tucumán. Received May 18, 1953.

**208562.** SOLANUM sp. Solanaceae.

No. 15.

**208563.** SOLANUM sp.

No. 39.

**208564.** SOLANUM sp.

No. 43.

**208565.** SOLANUM sp.

No. 44.

**208566.** SOLANUM sp.

No. 55.

**208567.** TRIFOLIUM REPENS L. Fabaceae.**White clover.**

From Italy. Seeds presented by Fratelli Carapolli, Florence. Received May 18, 1953.

*Italian Giant.* 144-22/12.**208568 to 208570.** SOLANUM TUBEROSUM L. Solanaceae. **Potato.**

From Germany. Tubers presented by Otto Schulz, Dortmund. Received May 19, 1953.

**208568.** *Bond.***208569.** *Heida.***208570.** *Sikersegen.***208571 and 208572.** CHLOROPHYTUM LAXUM R. Br. Liliaceae.**Green dracena.**

From New Zealand. Seeds presented by Lucy B. Moore, Division of Scientific and Industrial Research, Wellington. Received May 19, 1953.

**208571.** From Foxton.**208572.** From Levin.**208573 to 208582.** SORGHUM spp. Poaceae.

From India. Seeds presented by the Agricultural Research Institute, Coimbatore. Received May 19, 1953.

**208573.** SORGHUM ARUNDINACEUM (Willd.) Stapf.**208574 and 208575.** SORGHUM HALEPENSE (L.) Pers.**Johnson grass.****208574.** S. 267.**208575.** S. 310.**208576.** SORGHUM STAFFII (Hook.f.) C.E.C. Fisch.**208577.** SORGHUM SUBGLABRESCENS var. COMPACTUM (Burkhill) Snowden.**208578.** SORGHUM SUDANESE (Piper) Stapf.**Sudan grass.**



**208573 to 208582—Continued**208579. *SORGHUM VERTICILLIFLORUM* (Steud.) Stapf.208580 and 208581. *SORGHUM VULGARE* Pers.208580. *Coimbatoricum*.208581. *Mediocre*.208582. *SORGHUM NERVOSUM* Chiov.**208583 to 208597.**

From England. Seeds presented by Sutton & Sons, Ltd., Reading. Received May 19, 1953.

208583 to 208586. *PHASEOLUS COCCINEUS* L. Fabaceae.**Scarlet runner bean.**208583. *Achievement*.208585. *Prize-winner*.208584 *Best of All*.208586. *Scarlet*.208587 to 208591. *PHASEOLUS VULGARIS* L.**Common bean.**208587. *Earliest of All*.208590. *Premier*.208588. *Masterpiece*.208591. *The Prince*.208589. *Nobility*.208592 to 208597. *VICIA FABA* L. Fabaceae.**Broadbean.**208592. *Exhibition Longpod*.208595. *Prolific Longpod*.208593. *Green Giant Longpod*.208596. *The Sutton*.208594. *Green Windsor*.208597. *Unrivalled Green Windsor***208598 to 208609. RICINUS COMMUNIS** L. Euphorbiaceae.**Castorbean.**

From Oklahoma. Seeds planted at the Agricultural Experiment Station, Stillwater. Numbered May 19, 1953.

Originally from Dr. S. C. Litzenberger, Servicio Tecnico Agrícola de Nicaragua, Managua, Nicaragua.

208598. Nic. 1840. O. E. de Finotego #1.

208599. Nic. 1841. O. E. de Finotego #2.

208600. Nic. 1842. Arraba de Matagalpa.

208601. Nic. 1843. Sur de Finotego #1.

208602. Nic. 1844. Sur de Finotego #2.

208603. Nic. 1845. Sur de Finotego #3.

208604. Nic. 1846. Sur Antes de Finotego.

208605. Nic. 1847. Este de Finotego.

208606. Nic. 1848. La Entrada de la Fundadora #1.

208607. Nic. 1849. La Entrada de la Fundadora #2.

208608. Nic. 1850. Matagalpa.

208609. Nic. 1851. La Fundadora.

**208610 to 208656. IPOMOEA BATATAS** (L.) Lam. Convolvulaceae.**Sweetpotato.**

From Puerto Rico. Roots collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 19, 1953.

Collected May 12 to 15, 1953.

208610. No. 384. Jubos. Skin red; flesh yellow.

## 208610 to 208656—Continued

208611. No. 385. Quebradillas. Skin copper; flesh deep orange.  
208612. No. 388. Market, Canóvanas. Skin red; flesh white.  
208613. No. 389. Near Loíza Aldea. Skin pink; flesh white.  
208614. No. 391. Medianea Alta. Skin purplish red; flesh white.  
208615. No. 395. Market, Río Grande. Skin and flesh white.  
208616. No. 396. *Diablita*. Near Río Grande. Skin tan; flesh white.  
208617. No. 398. *Memeyes*. Skin red; flesh white.  
208618. No. 400. *Mulato Blanco*. Market, Fajardo. Skin tan; flesh cream colored.  
208619. No. 403. Daguas. Skin and flesh white.  
208620. No. 407. North of Gurabo. Skin red; flesh cream colored.  
208621. No. 408. North of Gurabo. Skin bronze; flesh light cream colored.  
208622 to 208644. Río Piedras.  
208622. No. 409. Skin copper; flesh orange.  
208623. No. 410. Skin pink; flesh light cream colored.  
208624. No. 411. Skin tan; flesh cream colored.  
208625. No. 412. *Dorada*. Skin flesh colored; flesh orange.  
208626. No. 413. Skin white; flesh light cream colored.  
208627. No. 414. Skin tan; flesh cream colored.  
208628. No. 415. Skin white; flesh light cream colored.  
208629. No. 416. *Mameya Cidra*. Skin bronze; flesh orange.  
208630. No. 417. Skin white; flesh yellowish.  
208631. No. 418. Skin light coppery; flesh light orange.  
208632. No. 419. Skin tan; flesh cream colored.  
208633. No. 420. *Mameya*. Skin flesh colored; flesh orange.  
208634. No. 421. Skin white; flesh light cream colored.  
208635. No. 422. Skin white; flesh very pale yellow.  
208636. No. 423. Skin pinkish red; flesh deep orange.  
208637. No. 424. Skin pinkish red; flesh pale yellow.  
208638. No. 425. Skin pinkish bronze; flesh pale yellow.  
208639. No. 426. Skin reddish pink; flesh light orange.  
208640. No. 427. Skin red; flesh light orange.  
208641. No. 428. Skin white; flesh orange.  
208642. No. 429. Skin flesh colored; flesh pale yellow.  
208643. No. 430. *Flecha*. Skin deep coppery; flesh orange.  
208644. No. 431. *Boniato*. Skin purplish red; flesh deep orange.  
208645. No. 446. *Flecha No. 2*. Cataño. Skin reddish purple; flesh orange.  
208646. No. 447. Cataño.  
208647 to 208650. Near Vega Alta.  
208647. No. 449. *Candela*. Skin purple; flesh white.  
208648. No. 450. *Caldarona*. Skin purplish red; flesh white.  
208649. No. 451. *Luga*. Skin deep pink; flesh white.  
208650. No. 452. *Boniato Coto Norte*. Skin bronze tan; flesh rich yellow

**208610 to 208656—Continued**

208651. No. 453. Near Manatí. Skin purplish red; flesh white.  
 208652. No. 454. Near Barceloneta. Skin reddish purple; flesh orange.  
 208653. No. 455. Near Barceloneta. Skin reddish purple; flesh white.  
 208654. No. 456. Palmas Alta. Skin reddish purple; flesh white.  
 208655. No. 457. Near Palmas Alta. Skin reddish purple; flesh white.  
 208656. No. 458. Near El Vigia. Skin reddish purple; flesh white.

**208657. MANGIFERA INDICA L. Anacardiaceae. Mango.**

From Puerto Rico. Seeds collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 20, 1953.

No. 445. Río Piedras. May 14, 1953.

**208658 to 208676. PHASEOLUS VULGARIS L. Fabaceae.**

**Common bean.**

From Mexico. Seeds presented by the Rockefeller Foundation, Mexico, D.F. Received May 20, 1953.

- |                           |                         |
|---------------------------|-------------------------|
| 208658. No. 161.          | 208668. Guerrero 4-A.   |
| 208659. No. 2191.         | 208669. AGS. 10-2.      |
| 208660. No. 2193.         | 208670. Puebla 45-2.    |
| 208661. No. 2194.         | 208671. Rocamex 3.      |
| 208662. No. 1-B-3 Puebla. | 208672. Ricos.          |
| 208663. No. 3-D-2 Puebla. | 208673. Jamaica.        |
| 208664. No. 27-B Puebla.  | 208674. H60-22-A-1.     |
| 208665. Guatemala 10-1.   | 208675. Zacatecas 24-1. |
| 208666. Guatemala 36.     | 208676. Oaxaca 14-3.    |
| 208667. Jalisco 22-1.     |                         |

**208677 to 208728.**

From Algeria. Seeds presented by the Station Centrale d'Essais de Semences et d'Amélioration des Plantes, Maison-Carrée. Received May 20, 1953.

**208677 and 208678. CARTHAMUS TINCTORIUS L. Asteraceae. Safflower.**

208677. No. 1.

208678. No. 2. From the East Indies.

**208679 to 208681. FESTUCA ARUNDINACEA Schreb. Poaceae. Fescue.**

208679. No. 47.

208680. No. 146.

208681. No. 352.

**208682. LUPINUS ANGUSTIFOLIUS L. Fabaceae.****208683. MEDICAGO SATIVA L. Fabaceae.**

**Alfalfa.**

**208684. MELILOTUS ALBA Desr. Fabaceae.**

**White sweetclover.**

**208685. MELILOTUS SEGETALIS (Brot.) Seringe.****208686. MELILOTUS OFFICINALIS (L.) Lam.**

**Yellow sweetclover.**

**208687. PANICUM PROLOTUM F. Muell. Poaceae.**

## 208677 to 208728—Continued

- 208688 to 208701. *RICINUS COMMUNIS* L. Euphorbiaceae. Castorbean.
208688. No. M6. Annual type. 208695. No. 39.
208689. No. M6. Perennial type. 208696. No. 41.
208690. No. 4. 208697. No. 44.
208691. No. 26. 208698. No. 45.
208692. No. 31. 208699. No. 47.
208693. No. 34. 208700. No. 48.
208694. No. 37. 208701. From Verone.
208702. *SORGHUM ALMUM* Parodi. Poaceae.
208703. *SORGHUM CAUDATUM* (Hack.) Stapf.
208704. *SORGHUM CONSPICUUM* var. *RUBICUNDUM* Snowden.
208705. *SORGHUM CORIACEUM* Snowden.
208706. *SORGHUM DOCHNA* (Forsk.) Snowden.
208707. *SORGHUM GUINEENSE* Stapf.
208708. *SORGHUM MELALEUCUM* Stapf.
208709. *SORGHUM MEMBRANACEUM* Chiov.
208710. *SORGHUM NERVOSUM* Chiov.
208711. *SORGHUM NIGRICANS* (Ruiz & Pav.) Snowden.
- 208712 and 208713. *SORGHUM VULGARE* var. *ROXBURGHII* (Stapf) Haines.
208712. No. 1.
208713. No. 2.
208714. *SORGHUM SPLENDIDUM* (Hack.) Snowden.
208715. *SORGHUM SUBGLABRESCENS* (Steud.) Schweinf. & Aschers.
208716. *SORGHUM SUBGLABRESCENS* var. *COMPACTUM* (Burkhill) Snowden.
- 208717 and 208718. *SORGHUM SUBGLABRESCENS* var. *OVIFORME* Snowden.
208717. No. 1.
208718. No. 2.
208719. *SORGHUM SUBGLABRESCENS* var. *RUBIDUM* (Burkhill) Snowden.
208720. *SORGHUM STAFFII* (Hook.f.) C.E.C. Fisch.
208721. *SORGHUM SUDANESE* (Piper) Stapf. Sudan grass.
208722. *SORGHUM VERSICOLOR* Anderss.
- 208723 to 208725. *SORGHUM VULGARE* Pers.
208723. No. 1.
208724. No. 2.
208725. No. 3.
208726. *SORGHUM VULGARE* var. *CAFFRORUM* (Retz.) Hubb. & Rehd.
208727. *TRIFOLIUM PHLEOIDES* Pourr. Fabaceae.
208728. *VICIA SICULA* Guss. Fabaceae.
208729. *ARACHIS HYPOGAEA* L. Fabaceae. Peanut.
- From Brazil. Seeds presented by Departamento Da Producao Vegetal, Campinas, São Paulo. Received May 21, 1953.

Tatu.



**208730. TRIFOLIUM REPENS L. Fabaceae. White clover.**

From Italy. Seeds presented by the Consorzio Agrario Provinciale Di Milano, Milan. Received May 21, 1953.

*Gigante Lodigiano.*

**208731 to 208771.**

From Cuba. Seeds collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 21, 1953.

Collected in 1953.

**208731 and 208732. ABELMOSCHUS ESCULENTUS (L.) Moench. Malvaceae. Okra.**

208731. No. 189. Sierra Morena, Santa Clara. Apr. 18.

208732. No. 211. Near Sagua la Grande, Santa Clara. Apr. 21.

**208733. ALLIUM FISTULOSUM L. Liliaceae. Welsh onion.**

No. 161. Santiago de las Vegas, Havana. Apr. 14.

**208734. BRASSICA PERVIRIDIS Bailey. Brassicaceae.**

No. 291. Santiago de las Vegas, Havana. Apr. 28.

**208735 to 208737. CAJANUS CAJAN (L.) Druce. Fabaceae. Pigeonpea.**

Isle of Pines. Apr. 30.

208735. No. 304. Small brown seeds.

208736. No. 305. Large tan seeds.

208737. No. 313. (No notes.)

**208738. CAPSICUM FRUTESCENS L. Solanaceae. Redpepper.**

No. 311. Isle of Pines. Apr. 30. Fruits small, yellow, very hot.

**208739. CARICA PAPAYA L. Caricaceae. Papaya.**

No. 181. (No field notes.)

**208740. CITRULLUS VULGARIS Schrad. Cucurbitaceae. Watermelon.**

No. 309. El Bobo, Isle of Pines. Apr. 30.

**208741 and 208742. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.**

208741. No. 225. Market, Sagua la Grande, Santa Clara. Apr. 20.  
Small to medium size; pineapple flavor.

208742. No. 317. Market, Nueva Gerona, Isle of Pines. Apr. 30.

**208743. CUCURBITA PEPO L. Cucurbitaceae. Pumpkin.**

No. 3. Market, Artemisa, Pinar del Río. Apr. 8.

**208744 to 208758. GOSSYPIUM. Malvaceae. Cotton.**

208744. No. 166. Sugidero de Batabano. Apr. 14.

208745. No. 168. Near Batabanó. Apr. 14.

208746. No. 174. Near Pipian, Havana. Apr. 15.

208747. No. 175. One mile east of Pipian, Havana. Apr. 15.

208748. No. 188. Carrolillo, Santa Clara. Apr. 18.

208749. No. 205. Near Real Campiña, Santa Clara. Apr. 20.

208750. No. 213. Near Hatillo, Santa Clara. Apr. 21.

208751. No. 217. Near Zulueta, Santa Clara. Apr. 21.

208752. No. 218. Near Palmerejo, Santa Clara. Apr. 22.

208753. No. 229. Soledad, Santa Clara. Apr. 24.

**208731 to 208771—Continued****208744 to 208758—Continued**

208754. No. 261. Jovellanos, Matanzas. Apr. 25.

208755. No. 264. Madruga, Havana. Apr. 26.

208756. No. 295. Santa Fe, Isle of Pines. Apr. 29.

208757. No. 301. Isle of Pines. Apr. 30.

208758. No. 312. Isle of Pines. Apr. 30.

208759. *IPOMOEA BATATAS* (L.) Lam. Convolvulaceae. Sweetpotato.

No. 212. Cijuentes, Santa Clara. Apr. 21. Skin red; flesh white.

208760 and 208761. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato.

208760. No. 203. Market, Colón, Matanzas. Apr. 20. Small native variety.

208761. No. 290. Near Havana. Apr. 28. Fruit high in solids.

208762. *NICOTIANA TABACUM* L. Solanaceae. Common tobacco.

No. 193. Near Rancho Veloz, Santa Clara. Apr. 18.

208763. *PASSIFLORA* sp. Passifloraceae.

No. 254. Cumanayagua, Santa Clara. Apr. 24. Fruit red.

208764 to 208767. *PHASEOLUS LUNATUS* L. Fabaceae. Lima bean.

208764. No. 179.

208765. No. 263. Near Varadero, Matanzas. Apr. 26.

208766. No. 300. Isle of Pines. Apr. 30.

208767. No. 303. Isle of Pines. Apr. 30.

208768 and 208769. *PHASEOLUS VULGARIS* L. Common bean.

208768. No. 171. Havana. Apr. 10.

208769. No. 308. El Bobo, Isle of Pines. Apr. 30.

208770. *SORGHUM VULGARE* Pers. Poaceae.

No. 302. Isle of Pines. Apr. 30.

208771. *VIGNA SINENSIS* (Torner) Savi. Fabaceae. Cowpea.

No. 310. El Bobo, Isle of Pines. Apr. 30.

208772. *TELFAIRIA PEDATA* Hook. Cucurbitaceae.

From Kenya. Seeds presented by R. Grahame Bell, Grahame Bell Ltd., Nairobi. Received May 22, 1953.

208773 to 208777. *PHASEOLUS VULGARIS* L. Fabaceae.

Common bean.

From Nicaragua. Seeds presented by the Servicio Tecnico Agrícola de Nicaragua, Managua. Received May 22, 1953.

208773. No. 1. 208776. No. 4.

208774. No. 2. 208777. No. 5.

208775. No. 3.

**208778 and 208779.**

From the Union of South Africa. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 22, 1953.

Prinshof Experiment Station, Pretoria, Transvaal. March 1953.

**208778.** *BIGNONIA* sp. Bignoniaceae.

No. 2018.

**208779.** *QUERCUS* sp. Fagaceae.

No. 1976.

**208780.** *SOLANUM LONGICONICUM* Bitter. Solanaceae.

From Costa Rica. Seeds collected by Claud Hope, Isla Bonita. Received May 22, 1953.

**208781 to 208789.** *GLYCINE MAX* (L.) Merrill. Fabaceae.

**Soybean.**

From Japan. Seeds presented by the Hyogo Agricultural College, Sasayawa. Received May 22, 1953.

**208781.** *Akazaya.*

**208786.** *Tamanishiki.*

**208782.** *Gin-Daizu.*

**208787.** *Tanba-kuro-daizu.*

**208783.** *Kaikon-Mame.*

**208788.** *Tookichi.*

**208784.** *Kiyozu.*

**208789.** *Zyuninyoshi.*

**208785.** *Kosa-Mame.*

**208790 to 208829.** *IPOMOEA BATATAS* (L.) Lam. Convolvulaceae.

**Sweetpotato.**

From Puerto Rico. Roots collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 25, 1953.

**208790 to 208799.** Market, Santurce, unless otherwise stated. May 16, 1953.

**208790.** No. 462. Skin reddish brown; flesh orange.

**208791.** No. 463. Skin beet-red; flesh deep cream colored.

**208792.** No. 465. Skin deep pink; flesh rich orange.

**208793.** No. 466. Skin and flesh white.

**208794.** No. 467. Skin purplish red.

**208795.** No. 468. Market, Río Piedras. Skin copper red; flesh deep orange.

**208796.** No. 469. Market, Río Piedras. Skin deep pink; flesh orange.

**208797.** No. 470. Skin purplish red; flesh very pale cream colored.

**208798.** No. 471. Skin pinkish red; flesh rich orange.

**208799.** No. 472. Skin flesh color; flesh orange.

**208800.** No. 474. Near Las Cruces. May 17, 1953. Skin bronze; flesh pale cream colored.

**208801.** No. 478. Corozal. May 18, 1953. Skin purple; flesh white.

**208802 to 208829.** From Río Piedras. May 18, 1953.

**208802.** No. 481. Skin light pink; flesh white.

**208803.** No. 482. Skin bronze; flesh cream color.

**208804.** No. 483. Skin and flesh white.

**208805.** No. 484. Skin tan; flesh yellowish.

**208790 to 208829—Continued****208802 to 208829—Continued**

208806. No. 485. Skin and flesh white.  
208807. No. 486. Skin and flesh white.  
208808. No. 487. Skin tan; flesh cream colored.  
208809. No. 488. Skin and flesh white.  
208810. No. 489. Skin light tan; flesh white.  
208811. No. 490. Skin white; flesh cream colored.  
208812. No. 491. Skin and flesh white.  
208813. No. 492. Skin tan; flesh white.  
208814. No. 493. Skin light tan; flesh cream colored.  
208815. No. 494. Skin purplish red; flesh white.  
208816. No. 495. Skin and flesh white.  
208817. No. 496. Skin reddish purple; flesh cream colored.  
208818. No. 497. Skin tan; flesh cream colored.  
208819. No. 498. Skin tan; flesh yellow.  
208820. No. 499. Skin tan; flesh cream colored.  
208821. No. 500. *Candela*. Skin pink; flesh cream colored.  
208822. No. 501. Skin and flesh white.  
208823. No. 502. Skin tan; flesh cream colored.  
208824. No. 503. Skin and flesh white.  
208825. No. 504. Skin flesh colored; flesh cream colored.  
208826. No. 505. Skin tan; flesh yellow.  
208827. No. 506. Skin and flesh white.  
208828. No. 507. Skin white; flesh light cream colored.  
208829. No. 508. Skin tan; flesh cream colored.

**208830 and 208831.**

From Sweden. Seeds presented by the Weibullsholm Plant Breeding Institute, Landskrona. Received May 25, 1953.

208830. *BROMUS ARVENSIS* L. Poaceae.

*Pyramid*.

208831. *DACTYLIS GLOMERATA* L. Poaceae.

Orchard grass.

*Pardue*.

**208832 to 208853.**

From Cuba and Costa Rica. Seeds collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 25, 1953.

Collected in Cuba unless otherwise stated.

208832 to 208834. *HIBISCUS CANNABINUS* L. Malvaceae.

Kenaf.

M. L. Tamargo selections, Santiago de las Vegas, Havana Province.

208832. No. 276. *Cubano*.

208833. No. 277. *Cuba 797*.

208834. No. 278. *Macco*.



## 208832 to 208853—Continued

208835 to 208838. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. **Tomato.**

208835. No. 282. *Marti 51*. San Antonio de Los Baños. Apr. 28, 1953.

208836. No. 283. *Cresto M51* × 64.

208837. No. 284. *Cueto M51* × 62.

208838. No. 285. *Cueto M51* × 65.

208839 to 208844. *RICINUS COMMUNIS* L. Euphorbiaceae. **Castorbean.**

208839 to 208842. Pinar del Río Province.

208839. No. 40. Rio Feo. Apr. 10, 1953.

208840. No. 46. Two miles north of Pinar del Río. Apr. 10, 1953.

208841. No. 68. Near San Vicente. Apr. 11, 1953.

208842. No. 79. Mariel. Apr. 12, 1953.

208843. No. 190. Sierra Morena, Matanzas. Apr. 18, 1953.

208844. No. 265. Trinidad, Santa Clara. Apr. 28, 1953.

208845. *VIGNA SINENSIS* (Torner) Savi. Fabaceae. **Cowpea.**

No. 178. Turrialba, Costa Rica. Apr. 16, 1953.

208846 to 208853. *ZEA MAYS* L. Poaceae. **Corn.**

Pinar del Río Province. Apr. 28, 1953.

208846. No. 268. *Vinales*. Viñales.

208847. No. 269. *Criollo*. Puerto Esperanza.

208848. No. 270. Guanes.

208849. No. 271. *Criollo*. Viñales.

208850. No. 272. *Criollo Bosario*. Puerto Esperanza.

208851. No. 273. *Bahia Honda*.

208852. No. 274. *Smooth Dent*. One km. northeast of Pinar del Río.

208853. No. 275. *Criollo*. Three km. northeast of Pinar del Río.

208854. *SETARIA* sp. Poaceae.

From the Union of South Africa. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received July 13, 1953.

No. 1601A. East of Frankhurstspruit, Transvaal.

208855. *MANGIFERA INDICA* L. Anacardiaceae. **Mango.**

From India. Seeds presented by the Agricultural College and Research Institute, Coimbatore. Received May 26, 1953.

*Kalapdi*.

208856 to 208881. *SOLANUM* spp. Solanaceae.

From Argentina. Seeds presented by H. Brucher, Fundación Miquel Lillo, Tucumán. Received May 26, 1953.

208856. *SOLANUM ACAULE* Bitter.

No. 33. Tafi.

208857. *SOLANUM GIGANTOPHYLLUM* Bitter.

No. 32. Yunka Luma.

**208856 to 208881—Continued**

208858 to 208866. *SOLANUM SIMPLICIFOLIUM* Bitter.

208858. No. 24. Rio Chacra.

208859. No. 25. Type I-z.

208860. No. 26. Rio Charadero. Type II-4. Flowers white; leaves large.

208861. No. 27. Type II-6. La Benderita.

208862. No. 28. Type II-9. Rio Chacra.

208863. No. 29. Type II-7. Flowers white.

208864. No. 30. Type II-5. Mesada. Flowers white.

208865. No. 31. Type II-8. Rio Chacra.

208866. No. 45. Orero.

208867 and 208868. *SOLANUM VERNEI* Bitter & Wittm.

208867. No. 51.

208868. No. 52.

208869. *SOLANUM* sp.

Pucara.

208870. *SOLANUM* sp.

No. 34-15.

208871. *SOLANUM* sp.

No. 35-4.

208872. *SOLANUM* sp.

No. 36-11.

208873. *SOLANUM* sp.

No. 40.

208874. *SOLANUM* sp.

No. 41.

208875. *SOLANUM* sp.

No. 42.

208876. *SOLANUM* sp.

No. 46.

208877. *SOLANUM* sp.

No. 48.

208878. *SOLANUM* sp.

No. 49.

208879. *SOLANUM* sp.

No. 50.

208880. *SOLANUM* sp.

No. 53.

208881. *SOLANUM* sp.

No. 54.

**208882 to 208891. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. Sweetpotato.**

From Puerto Rico. Roots collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 27, 1953.

208882. No. 520. Market, Cabo Rojo. May 21, 1953. Skin purplish red; flesh yellowish.

208883. No. 521. Market, Cabo Rojo. May 21, 1953. Skin tan; flesh white.

208884 to 208891. From the Mayagüez Experiment Station, Mayagüez. May 22, 1953.

208884. No. 525. B-6328.

208888. No. 530. B-6329.

208885. No. 526. B-6353.

208889. No. 531. B-6328.

208886. No. 527. B-6369.

208890. No. 532. B-6324.

208887. No. 528. B-6325.

208891. No. 533. B-6347.

**208892 to 208913.**

From Iraq. Seeds presented by the Technical Cooperation Administration through the American Embassy, Baghdad. Received May 27, 1953.

**208892 to 208905. TRITICUM AESTIVUM L. Poaceae Common wheat.**

208892. *English.*

208899. *Krata.*

208893. *Hamrah.*

208900. *Mania.*

208894. *Hawasia.*

208901. *Misria.*

208895. *Homara.*

208902. *Okama.*

208896. *Homara-Mania.*

208903. *Rash-kool.*

208897. *Kadrmia.*

208904. *Sarc-ah.*

208898. *Kendiharia.*

208905. *Yosifa.*

**208906 to 208910. TRITICUM DURUM Desf.**

**Durum wheat.**

208906. *Herma.*

208909. *Menshia.*

208907. *Lara.*

208910. *Sin El-Jamil.*

208908. *Mendola.*

**208911. TRITICUM POLONICUM L.**

**Polish wheat.**

*Sin El Pheel.*

**208912. TRITICUM TURGIDUM L.**

**Poulard wheat.**

*Zerdakia.*

**208913. ZEA MAYS L. Poaceae.**

**Corn.**

*Lal-Ton.*

**208914 to 208955.**

From the Union of South Africa. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 27, 1953.

Collected in March 1953 from Prinshof Experiment Station, Pretoria, Transvaal, unless otherwise stated.

**208914. ALLOTEROPSIS SEMIALATA (R. Br.) Hitchc. Poaceae.**

No. 1777. Along Delmas road near Pretoria, Transvaal. Jan. 27.

**208915. ANDROPOGON INERMIS Steud. Poaceae.**

No. 1814. Rietvlei Agricultural Research Station, Transvaal. Feb. 5.

## 208914 to 208955—Continued

208916. *ANTHEPHORA PUBESCENS* Nees. Poaceae.

No. 1827. Fifty-five miles southwest of Mafeking, Cape Province. Feb. 9.

208917. *ARISTIDA OBTUSA* Delile. Poaceae.

No. 1867. Rietvlei Agricultural Research Station, Transvaal. Feb. 17.

208918. *ARISTIDA CILIATA* Desf.

No. 1869. Rietvlei Agricultural Research Station, Transvaal. Feb. 17.

208919. *ARISTIDA UNIPLUMIS* Roem. & Schult.

No. 1868. Rietvlei Agricultural Research Station, Transvaal. Feb. 17.

208920. *BRACHIARIA BRIZANTHA* (Hochst.) Stapf. Poaceae.

No. 1986.

208921. *BRACHIARIA* sp.

No. 1983.

208922. *BRACHIARIA BRIZANTHA* (Hochst.) Stapf.

No. 2006.

208923. *CHRYSOPOGON MONTANUS* var. *TREMULUS* (Hack.) Stapf. Poaceae.

No. 2001.

208924. *DIGITARIA PENTZII* Stent. Poaceae.

No. 1943.

208925. *DIGITARIA SERIATA* Stapf.

No. 1937.

208926. *CHLORIS GAYANA* Kunth. Poaceae.

No. 1973.

208927. *DIGITARIA SERIATA* Stapf. Poaceae.

No. 1974.

208928. *DIGITARIA SMUTSII* Stent.

No. 1794. Transvaal. Feb. 3.

208929 to 208931. *DIGITARIA VALIDA* Stent.

208929. No. 1940.

208930. No. 1963. *P. 95.*

208931. No. 1966. *P. 62.*

208932. *DIGITARIA SMUTSII* Stent.

No. 1961. *P. 856.*

208933. *DIGITARIA* sp.

No. 1962. *P. 158.*

208934. *DIGITARIA VALIDA* Stent.

No. 1967. *P. 858.*

208935. *DIGITARIA* sp.

No. 1968. *P. 1645.*

208936. *DIGITARIA* sp.

No. 1969. *P. 1655.*

208937. *DIGITARIA VALIDA* Stent.

No. 1970. *P. 1657.*



## 208914 to 208955—Continued

208938. *DIMORPHOTHECA PLUVIALIS* (L.) Moench. Asteraceae.  
Cape-marigold.  
No. 1981. Pretoria.
- 208939 and 208940. *ECHINOCHLOA PYRAMIDALIS* (Lam.) Hitchc. & Chase.  
Poaceae.  
208939. No. 1997.  
208940. No. 1998.
208941. *EHRHARTA LONGIFLORA* J. E. Sm. Poaceae.  
No. 1864. Rietvlei Agricultural Research Station, Transvaal. Feb. 17, 1953.
208942. *LEONOTIS MICROPHYLLA* Skan. Menthaceae.  
No. 1784. Near Johannesburg, Transvaal. Jan. 31, 1953.
208943. *PANICUM COLORATUM* L. Poaceae.  
No. 1580. Pinaars River, Transvaal. Jan. 9, 1953.
208944. *PANICUM DEUSTUM* Thunb.  
No. 1982.
- 208945 and 208946. *SETARIA ALMASPICATA* De Wit. Poaceae.  
208945. No. 1971.  
208946. No. 1984.
208947. *SETARIA NIGRIROSTRIS* (Nees.) Dur. & Schinz.  
No. 1949.
- 208948 and 208949. *SETARIA SPHACELATA* (Schum.) Stapf & Hubb.  
208948. No. 1938.  
208949. No. 1990.
208950. *SPOROBOLUS FIMBRIATUS* var. *LATIFOLIUS* Stent. Poaceae.  
No. 1988.
208951. *TETRACHNE DREGEI* Nees. Poaceae.  
No. 2003.
208952. *TRIFOLIUM AFRICANUM* Ser. Fabaceae.  
No. 1819. Eight miles east of Bethal, Transvaal. Feb. 7. 1953.
208953. *TRIFOLIUM REPENS* L. White clover.  
No. 1809. Rietvlei Agricultural Research Station, Transvaal. Feb. 5, 1953.
208954. *UROCHLOA PULLULANS* Stapf. Poaceae.  
No. 1987.
208955. *XYSMALOBIMUM UNDULATUM* (L.) R. Br. Asclepiadaceae.  
No. 1880. Pretoria, Transvaal. Feb. 4, 1953.

## 208956 to 208958.

From Kenya. Seeds presented by the Grassland Research Station, Kitale.  
Received May 28, 1953.

- 208956 and 208957. *TRIFOLIUM JOHNSTONII* Oliver. Fabaceae. Clover.  
208956. *K 53187*.  
208957. *K 53348*.
208958. *TRIFOLIUM SEMIPILOSUM* Fresen.  
*K 5154*. (?)

**208959 to 208972.**

From California. Plants growing at the Huntington Botanical Garden, San Marino. Numbered May 28, 1953.

Collected by H. S. Gentry in central Mexico in April and May, 1953.

**208959. AGAVE sp. Amaryllidaceae.**

No. 12561. Cerro, 15 to 20 miles north of Los Mochis, Sinaloa, on volcanic cliffs.

**208960. AGAVE sp.**

No. 12573. Five to eight miles east of Encinal, along highway from Huatusco to Veracruz.

**208961. AGAVE sp.**

No. 12575. Thirty to forty miles southeast of Jalapa, Veracruz.

**208962. AGAVE sp.**

No. 12576. Fourteen miles west of Jalapa along road to Puebla.

**208963. AGAVE sp.**

No. 12576A. See PI 208962; variant with population.

**208964. AGAVE sp.**

No. 12577. Sixteen miles west of Jalapa, Veracruz, along highway to Puebla.

**208965. AGAVE sp.**

No. 12578. Five miles east of Lago de Alchichica, Veracruz.

**208966. AGAVE sp.**

No. 12579. One mile east of Zacatepec, Puebla, along road to Jalapa.

**208967. AGAVE sp.**

No. 12580. Three miles east of Tulancingo, Hidalgo.

**208968. AGAVE sp.**

No. 12593. About 40 miles south of Mexico City, along new highway to Cuernavaca.

**208969. AGAVE sp.**

No. 12597. Fifteen miles west of Cadereyta, Querétaro, along road to Querétaro.

**208970. CACTUS sp. Cactaceae.**

No. 12592. Three to four miles east of Tulancingo, Hidalgo.

**208971. FOUQUIERIA MACDOUGALI Nash. Fouquieriaceae.**

Bachaca, Sonora.

**208972. MAMMILLARIA sp. Cactaceae.**

No. 12591. Three miles east of Tulancingo, Hidalgo.

**208973 to 208978.**

From Mexico and Guatemala. Seeds collected by H. S. Gentry, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 28, 1953.

Unless otherwise stated, seeds were collected in Mexico.

**208973. CANAVALIA sp. Fabaceae.**

No. 12586. Tihuatlán.

**208974. DIOSCOREA sp. Dioscoreaceae.**

No. 12546. San Sebastián, Retalhuleu, Guatemala.

**208973 to 208978—Continued**208975. *DIOSCOREA* sp.

No. 12589. El Suchil.

208976 and 208977. *PHASEOLUS VULGARIS* L. Fabaceae.

Common bean.

208976. No. 12584. Market, Papantla. Apr. 25, 1953.

208977. No. 12585. Market, Papantla. Apr. 25, 1953.

208978. *PHYSALIS* sp. Solanaceae.

No. 12599. Alamos, Sonora.

**208979 to 209016.**

From the Union of South Africa. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 28, 1953.

Collected in 1953 from the Rietvlei Agricultural Research Station, Rietvlei, Transvaal, unless otherwise stated.

208979. *ARISTIDA HOCHSTETTERIANA* G. Beck. Poaceae.

No. 1866. Feb. 17.

208980. *ARISTIDA UNIPLUMIS* Roem. & Schult.

No. 1870. Feb. 17.

208981. *DACTYLOCTENIUM GIGANTEUM* Fish. & Schweik. Poaceae.

No. 1779. Frankenwald Experiment Station, near Johannesburg, Transvaal. Jan. 29.

208982 to 208988. *EHRHARTA CALYCINA* J. E. Sm. Poaceae.

208982. No. 1856.

208986. No. 1860.

208983. No. 1857.

208987. No. 1862.

208984. No. 1858.

208988. No. 1863.

208985. No. 1859.

208989. *EHRHARTA* sp.

No. 1861.

208990. *EHRHARTA* sp.

No. 1865.

208991 to 208994. *ERAGROSTIS CURVULA* (Schrad.) Nees. Poaceae.

Weeping lovegrass.

208991. No. 1810.

208993. No. 1812.

208992. No. 1811.

208994. No. 1813.

208995. *GREWIA FLAVA* DC. Tiliaceae.

No. 1832. Five miles northwest of Kuruman, Cape Province. Feb. 10.

208996. *PANICUM COLORATUM* L. Poaceae.

No. 1791. Near Pinaars River, Transvaal. Feb. 2.

208997 to 208999. *PANICUM MAKARIKARIENSE* (Goos.) Van Rensb.

208997. No. 1815. Feb. 5.

208998. No. 1843.

208999. No. 1853.

**208979 to 209016—Continued**

**209000 to 209011.** From Prinshof Experiment Station, Pretoria, Transvaal. February.

**209000.** *PANICUM MAXIMUM* Jacq. Guinea grass.  
No. 1991.

**209001.** *PANICUM* sp.  
No. 1844. *P. 168.*

**209002.** *PANICUM* sp.  
No. 1845. *P. 1423.*

**209003.** *PANICUM* sp.  
No. 1846. *P. 334.*

**209004.** *PANICUM* sp.  
No. 1847. *P. 341.*

**209005.** *PANICUM MAXIMUM* Jacq. Guinea grass.  
No. 1848. *P. 1528.*

**209006.** *PANICUM* sp.  
No. 1849. *P. 1164.*

**209007 to 209010.** *PANICUM MAXIMUM* Jacq. Guinea grass.

**209007.** No. 1850. *P. 1531.*

**209008.** No. 1851. *P. 1529.*

**209009.** No. 1852. *P. 1809.*

**209010.** No. 1854. *P. 1676.*

**209011.** *PANICUM* sp.  
No. 1855. *P. 1412.*

**209012 to 209015.** *SETARIA SPHACELATA* (Schum.) Stapf & Hubb. Poaceae.

**209012.** No. 1807. Feb. 5.

**209013.** No. 1808. Feb. 5.

**209014.** No. 1885. Near Johannesburg, Transvaal. Feb. 18.

**209015.** No. 1994. Prinshof Experiment Station, Pretoria, Transvaal. Mar. 11.

**209016.** *TRIFOLIUM ALEXANDRINUM* L. Fabaceae. Berseem.  
No. 1804. Prinshof Experiment Station, Pretoria, Transvaal. 1952.

**209017 and 209018.**

From Costa Rica. Tubers presented by J. R. Hunter, Institute of Inter-American Affairs, Turrialba. Received May 28, 1953.

**209017.** *DIOSCOREA* sp. Dioscoreaceae.

**209018.** *DIOSCOREA* sp.  
*Maritimo.*

**209019 to 209059.**

From Puerto Rico and Cuba. Seeds collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 29, 1953.

Collected in 1953; unless otherwise stated, collected in Puerto Rico.

**209019.** *ARACHIS HYPOGAEA* L. Fabaceae. Peanut.  
No. 333. Jobos, Isabela. May 5.



## 209019 to 209059—Continued

- 209020 and 209021. *BRASSICA CAMPESTRIS* L. Brassicaceae.  
 209020. No. 286. Apr. 28.  
 209021. No. 202. From Santiago de las Vegas Experiment Station, Havana, Cuba. Apr. 28.
209022. *BRASSICA HIRTA* Moench.  
 No. 287. Apr. 28.
209023. *BRASSICA NIGRA* (L.) Koch. Black mustard.  
 No. 288. Apr. 28.
- 209024 and 209025. *CAJANUS CAJAN* (L.) Druce. Fabaceae. Pigeonpea.  
 209024. No. 329. University of Puerto Rico, Isabela. May 5.  
 209025. No. 393. Near Río Grande. May 13.
- 209026 to 209028. *CAPSICUM FRUTESCENS* L. Solanaceae. Redpepper.  
 209026. No. 330. *Puerto Rico Wonder*. University of Puerto Rico, Isabela. May 5.  
 209027. No. 364. Market, Ponce. May 8. Fruits small, red, sweet.  
 209028. No. 387. Market, Canóvanas. May 13. Fruits button-like, orange red.
209029. *CARICA PAPAYA* L. Caricaceae. Papaya.  
 No. 328. University of Puerto Rico, Isabela. May 5.
209030. *CROTALARIA MUCRONATA* Desv. Fabaceae.  
 No. 315. Santa Barbara, Isle of Pines, Cuba. Apr. 30.
- 209031 to 209043. *GOSSYPIUM*. Malvaceae. Cotton.  
 209031. No. 325. Arenales. May 5.  
 209032. No. 374. Near Yauco. May 8.  
 209033. No. 375. Mayagüez. May 8.  
 209034. No. 376. Mayagüez. May 8.  
 209035. No. 379. Federal Experiment Station, Mayagüez. May 10.  
 Shrub with trunk 4 inches thick.  
 209036. No. 397. Near Río Grande. May 13.  
 209037. No. 401. Near Fortuna. May 13.  
 209038. No. 402. Near Fortuna. May 13.  
 209039. No. 405. Cerro la Tiza, near Comerío. May 14.  
 209040. No. 448. Near Catario. May 15.  
 209041. No. 459. Near Arecibo. May 15.  
 209042. No. 460. Near Arecibo. May 15. Bush 8 feet high.  
 209043. No. 479. Corozal. May 18.
209044. *GOSSYPIUM* sp.  
 No. 334. Las Cruces, Rincón. May 5.
- 209045 and 209046. *IPOMOEA BATATAS* (L.) Lam. Convolvulaceae. Sweetpotato.  
 209045. No. 353. Between Camuy and Quebradillas. Skin cream colored; flesh white. May 7.  
 209046. No. 403. Daguas. Skin and flesh white. May 13.

**209019 to 209059—Continued**

209047. *IPOMOEA CRASSICAULIS* (Benth.) B. L. Rob.  
No. 160. Placa de la Republica, Cuba. Apr. 14.
209048. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato.  
No. 359. Market, Yauco. May 8.
- 209049 and 209050. *NICOTIANA TABACUM* L. Solanaceae. Common tobacco.  
209049. No. 357. Near Susua. May 8.  
209050. No. 406. Cerro la Tiza, near Comerío. May 14.
209051. *PHASEOLUS LUNATUS* L. Fabaceae. Lima bean.  
No. 316. Santa Barbara, Isle of Pines, Cuba. Apr. 30.
- 209052 and 209053. *PHASEOLUS VULGARIS* L. Common bean.  
University of Puerto Rico, Isabela. May 5.  
209052. No. 326. White, stringless.  
209053. No. 327. *Bonita*.
209054. *RICINUS COMMUNIS* L. Euphorbiaceae. Castorbean.  
No. 392. Near Medianea Alta. May 13.
209055. *RUBUS GLAUCUS* Benth. Rosaceae. Andes raspberry.  
No. 370. Toro Negro National Forest. May 8.
- 209056 and 209057. *RUBUS ROSAEFOLIUS* J. E. Sm. Roseleaf raspberry.  
209056. No. 340. Maricao Forest. May 6.  
209057. No. 369. Toro Negro National Forest. May 8.
209058. *TEPHROSIA* sp. Fabaceae.  
No. 228. Santa Clara, Cuba. Apr. 23.
209059. *THESPESIA POPULNEA* (L.) Soland. Malvaceae.  
No. 318. Nueva Gerona, Isle of Pines, Cuba. Apr. 30.

**209060 to 209062.**

From the Virgin Islands. Bulbs and roots collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received May 29, 1953.

209060. *ALLIUM FISTULOSUM* L. Liliaceae. Welsh onion.  
No. 556. Saint Thomas. May 23, 1953. (Bulbs.)
- 209061 and 209062. *IPOMOEA BATATAS* (L.) Lam. Convolvulaceae. Sweetpotato.  
Market, Charlotte Amalie, Saint Thomas. May 23, 1953. Grown on Tortola. (Roots.)

**209063. *MEDICAGO MARINA* L. Fabaceae.**

From Spain. Seeds collected by David Fairchild, Agricultural Explorer, United States Department of Agriculture. Received at the Plant Introduction Garden, Coconut Grove, Fla. Sept. 8, 1925. Numbered June 1, 1953.

- No. 18. Gibraltar. August 1925.

## 209064 to 209069. CUCUMIS SATIVUS L. Cucurbitaceae.

Cucumber.

From Iowa. Seeds planted at the Regional Plant Introduction Station, Iowa State College, Ames. Numbered June 1, 1953.

## 209064 to 209068.

Said to have some tolerance to cucumber virus No. 1.

209064. *M-1*.209067. *M-20*.209065. *M-14*.209068. *M-24*.209066. *M-16*.

209069. *Ohio 31*. A selection also mosaic tolerant.

## 209070. DIOSCOREA SPICULIFLORA Hemsl. Dioscoreaceae.

From Mexico. Tubers presented by F. Miranda, Instituto Botanico Del Estado, Tuxtla Gutierrez, Chiapas. Received June 1, 1953.

Received in response to a request for material corresponding to that collected by H. S. Gentry under his No. 12228, in 1952.

## 209071 to 209073. CERATONIA SILIQUA L. Fabaceae.

Carob.

From Spain. Cuttings presented by Don P. Nacher Chanza, Agricultural Experiment Station, Burjasot (Valencia). Received June 1, 1953.

209071. *Costelludes*.209072. *Fornay*.209073. *Melera*.

## 209074 to 209087. IPOMOEA BATATAS (L.) Lam. Convolvulaceae.

Sweetpotato.

From the Virgin Islands. Roots collected by D. S. Correll, and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received June 2, 1953.

From Saint Croix Island. May 27 to 29, 1953.

209074. No. 573. Peter's Rest. *Black Rock* or *Six Weeks*. Skin deep purplish red; flesh rich cream.

209075. No. 574. Monbijou. Skin light tan; flesh light cream.

209076. No. 581. Near Hope. Skin purplish; flesh light cream.

209077. No. 586. Rattan. Skin reddish brown; flesh orange.

209078. No. 589. Saint John's. Skin reddish copper; flesh orange.

209079. No. 591. Whim. Skin red; flesh rich yellow.

## 209080 to 209087. From Slob.

209080. No. 598. *Five Weeks*. Skin tan; flesh cream.

209081. No. 599. *Five Fingers*. Skin tan-flesh color; flesh very light cream.

209082. No. 600. *Renchar*. Skin bright purplish red; flesh light cream.

209083. No. 601. *Stevens*. Skin pinkish flesh color; flesh rich cream.

209084. No. 602. *Black Rock*. Skin deep purplish red; flesh rich cream.

209085. No. 603. *St. Kitts*. Skin reddish pink; flesh orange yellow.

209086. No. 604. *Five Weeks*. Skin russet brown; flesh rich cream.

209087. No. 605. Skin tan; flesh white to cream.

**209088 and 209089. GOSSYPIUM. Malvaceae. Cotton.**

From Haiti. Seeds presented by an unknown donor. Received June 2, 1953.

209088. No. 1.

209089. No. 2.

**209090 and 209091. MEDICAGO SATIVA L. Fabaceae. Alfalfa.**

From Peru. Seeds collected by A. F. Swanson, Agricultural Advisor, Foreign Agricultural Service, United States Department of Agriculture, Washington, D.C. Received June 2, 1953.

209090. *Huaylas*. From the upper Alto-Sierra, Ancash District. Altitude 8,400 feet.

209091. *Quebrada Pomay*. Lower level of the higher Andes, Ancash District.

**209092 to 209099. RHODODENDRON spp. Ericaceae.**

From England. Seeds presented by the Royal Botanic Gardens, Kew, Surrey. Received June 2, 1953.

209092. RHODODENDRON ALBRECHTII Maxim.

209093. RHODODENDRON CHARITOSTREPTUM Balf. & Ward.

209094. RHODODENDRON CRINIGERUM Franch.

209095. RHODODENDRON DECORUM Franch.

209096. RHODODENDRON EXQUISITUM Hutch.

209097. RHODODENDRON NIPPONICUM Matsum.

209098. RHODODENDRON ROSEUM (Loisel.) Rehd.

209099. RHODODENDRON TIMETUEM Balf. f. & Forr.

**209100 to 209102.**

From Australia. Seeds presented by F. B. Gibbons, Cockatoo Creek, South Porongorups, West Australia. Received June 3, 1953.

209100. BROMUS CATHARTICUS Vahl. Poaceae.

209101. PENNISETUM CILIARE (L.) Link. Poaceae.

209102. POA sp. Poaceae.

**209103. SESAMUM INDICUM L. Pedaliaceae. Sesame.**

From the Dominican Republic. Seeds presented by J. D. Aughtry, Ingenio Barahona, Barahona. Received June 3, 1953.

**209104 to 209135.**

From Puerto Rico. Seeds collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received June 3, 1953.

Collected in 1953.

209104. ABELMOSCHUS ESCULENTUS (L.) Moench. Malvaceae. Okra.

No. 480. *Puerto Rico Evergreen*. Río Piedras Experiment Station. May 18.

209105. ABUTILON sp. Malvaceae.

No. 399. Luchillo farm, road to Fajardo. May 13. Tree small; flowers large, yellow.



## 209104 to 209135—Continued

- 209106 to 209108. CAJANUS CAJAN (L.) Druce. Fabaceae. Pigeonpea.  
Río Piedras.  
209106. No. 441. *Florida*. May 14.  
209107. No. 442. *Kaki*. May 14.  
209108. No. 475. Near Loiza. May 17. Small seeded strain.
- 209109 to 209112. CAPSICUM FRUTESCENS L. Solanaceae. Redpepper.  
209109. No. 461. Near Arecibo. May 15. Tanasco type.  
209110. No. 646. Market, Santurce. May 16. Pods red.  
209111. No. 473. Market, Santurce. May 16. Pods yellow.  
209112. No. 523. Market, Cabo Rojo. May 21. Pods bright green.
209113. CROTALARIA JUNCEA L. Fabaceae. Sunn-hemp.  
No. 510. Federal Experiment Station, Mayagüez. May 20.
- 209114 and 209115. CROTALARIA MUCRONATA Desv.  
209114. No. 394. Near Río Grande. May 13.  
209115. No. 477. South slope of El Yunque. May 17.
209116. CUCURBITA MOSCHATA Duchesne. Cucurbitaceae. Cushaw.  
No. 440. Río Piedras. May 14. Selection No. 13.
209117. CUCURBITA PEPO L. Pumpkin.  
No. 386. Market, Carolina. May 13. Fruit dark green; flesh deep orange.
- 209118 to 209125. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. Sweetpotato.  
From Río Piedras. May.  
209118. No. 432. *Mameya*; L-224.  
209119. No. 433. *Dorado*; *Mameya*.  
209120. No. 434. *Amarilla*.  
209121. No. 435. *Mameya Cidra*.  
209122. No. 436. *Sweet*; *Amarilla*.  
209123. No. 437. *Amarilla*; B-1.  
209124. No. 438. *Mameya*; 2-1-196.  
209125. No. 439. *Blanca*; C-5.
209126. IPOMOEA QUINQUEFOLIA L.  
No. 360. Near Guayanilla. May 8.
209127. IPOMOEA sp.  
No. 321. Near Mayagüez. May 5. Flowers light pink with deep-pink throat.
209128. IPOMOEA sp.  
No. 338. Maricao Forest. May 6.
209129. IPOMOEA sp.  
No. 368. Toro Negro National Forest. May 8.
209130. IPOMOEA sp.  
No. 513. Cabo Rojo beach. May 21.

**209104 to 209135—Continued**

209131. *NICOTIANA TABACUM* L. Solanaceae. Common tobacco.

No. 509. Near Las Cruces. May 19.

209132 and 209133. *RICINUS COMMUNIS* L. Euphorbiaceae. Castorbean.

209132. No. 382. La Parguera. May 11.

209133. No. 522. Cabo Rojo beach. May 21.

209134. *SOLANUM MELONGENA* L. Solanaceae. Eggplant.

No. 524. Market, Cabo Rojo. May 21. Fruit oblong pyriform.

209135. *ZEA MAYS* L. Poaceae. Corn.

No. 381. *Mayorbela*. Laja's Seed Farm. May 11. Yellow fruit.

**209136 to 209160. GOSSYPIUM. Malvaceae. Cotton.**

From the Virgin Islands. Seeds collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received June 4, 1953.

Collected May 23 to 28, 1953.

209136 to 209145. From Saint Thomas Island.

209136. No. 534. Near Havensight.

209137. No. 535. Near Bodin Nair.

209138. No. 537. Near Magens Bay.

209139. No. 538. On edge of Charlotte Amalie.

209140. No. 539. Edge of Harry S. Truman Airport.

209141. No. 542. Above Perseverance Bay.

209142. No. 544. East part of Charlotte Amalie.

209143. No. 545. East of Charlotte Amalie.

209144. No. 557. Near Botany Bay.

209145. No. 558. Western edge of Charlotte Amalie.

209146 to 209160. From Saint Croix Island.

209146. No. 560. La Grande Princess.

209147. No. 561. Southgate.

209148. No. 556. Near Sally's Fancy.

209149. No. 567. Near Sally's Fancy.

209150. No. 569. Near Saint John's.

209151. No. 571. Morning Star.

209152. No. 572. Bulowminde.

209153. No. 575. Upper Bethlehem.

209154. No. 576. Manning's Bay.

209155. No. 577. Near Alexander Hamilton Airport.

209156. No. 579. Near Alexander Hamilton Airport.

209157. No. 580. Near Whim.

209158. No. 587. Rattan.

209159. No. 588. Saint John's.

209160. No. 595. Upper Love.

209161. *COFFEA ARABICA* var. *MOKKE* Cramer. Rubiaceae.  
Arabian coffee.

From Brazil. Seeds presented by the Instituto Agronômico, Campinas, São Paulo. Received June 5, 1953.

*Mokka.*

209162 to 209229.

From the Union of South Africa. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received June 8, 1953.

Unless otherwise stated, collections were made in the Transvaal, in 1953.

209162. *ANDROPOGON AMPLECTANS* Nees. Poaceae.

No. 1563. Twelve miles south of Bentersburg, Orange Free State. Jan. 6.

- 209163 to 209165. *ANTHOSCHIDTIA BULBOSA* (Stapf) Peter. Poaceae.

209163. No. 1585. Near Pinaars River. Jan. 9.

209164. No. 1641. Between Pretorius Kop and Skukuza. Jan. 13.

209165. No. 1717. Ten miles northeast of Punda Maria, Kruger National Park. Jan. 20.

209166. *ARISTIDA OBTUSA* Delile. Poaceae.

No. 1838. Putzanderwater, Cape Province. Feb. 12.

209167. *ASPARAGUS LARICINUS* Burchell. Liliaceae.

No. 1581. Pinaars River. Jan. 9.

209168. *BOTHRIOCHLOA GLABRA* (Roxb.) A. Camus. Poaceae.

No. 1698. Sixteen miles southeast of Pretorius Kop. Jan. 16.

209169. *BRACHIARIA BRIZANTHA* (Hochst.) Stapf. Poaceae.

No. 1648. Vicinity of Pretorius Kop, Kruger National Park. Jan. 14.

209170. *CHLORIS GAYANA* Kunth. Poaceae. Rhodes grass.

No. 1840. Kimberley, Cape Province. Feb. 12.

209171. *CHLORIS VIRGATA* Sw.

No. 1674. Sixteen miles southeast of Pretorius Kop. Jan. 16.

209172. *DIGITARIA ERIANTHA* Steud. Poaceae.

No. 1588. Near Pinaars River. Jan. 9.

209173. *DIGITARIA GLAUCA* Stent.

No. 1789. Near Pinaars River. Feb. 2.

209174. *DIGITARIA MONODACTYLA* (Nees) Stapf.

No. 1673. Sixteen miles southeast of Pretorius Kop. Jan. 16.

- 209175 to 209179. *DIGITARIA VALIDA* Stent.

209175. No. 1718. Ten miles northeast of Punda Maria, Kruger National Park. Jan. 20.

209176. No. 1740. Eight miles south of Warmbaths. Jan. 23.

209177. No. 1634. Between Pretorius Kop and Skukuza. Jan. 13.

209178. No. 1668. Vicinity of Pretorius Kop, Kruger National Park. Jan. 15.

209179. No. 1678. Sixteen miles southeast of Pretorius Kop. Jan. 16.

209180. *DIGITARIA SMUTSII* Stent.

No. 1874. Near Silverton. Feb. 17.

**209162 to 209229—Continued**

**209181. EHRHARTA CALYCINA J. E. Sm. Poaceae.**

No. 1271. Thirty miles northwest of Capetown, Cape Province. Nov. 25, 1952.

**209182. EHRHARTA sp.**

No. 1264. West slopes of Kobe mountains, Cape Province. Nov. 24, 1952.

**209183. ELYONURUS ARGENTUS Nees. Poaceae.**

No. 1590. Between Hamanskrool and Rust de Winter. Jan. 9.

**209184. ERAGROSTIS CHLOROMELAS Steud. Poaceae.**

No. 1615. Twenty-three miles east of Machadodorp. Jan. 2.

**209185 and 209186. ERAGROSTIS CURVULA (Schrud.) Nees.**

Weeping lovegrass.

**209185. No. 1617. Twenty-three miles east of Machadodorp. Jan. 12.**

**209186. No. 1875. Near Silverton. Feb. 17.**

**209187. ERAGROSTIS LAPPULA Nees.**

No. 1601. Nine miles east of Krankhurstspruit. Jan. 11.

**209188. ERAGROSTIS sp.**

No. 1639. Between Pretorius Kop and Skukuza. Jan. 13.

**209189. SPOROBOLUS FILIPES Stapf. Poaceae.**

No. 1790. Near Pinaars River. Feb. 2.

**209190. ERIOCHLOA BORUMENSIS Hack. Poaceae.**

No. 1645. Between Pretorius Kop and Skukuza. Jan. 13.

**209191. EUSTACHYS PASPALOIDES (Vahl) L. & M. Poaceae.**

No. 1583. Near Pinaars River. Jan. 9.

**209192. GREWIA FLAVA DC. Tiliaceae.**

No. 1587. Near Pinaars River. Jan. 9.

**209193. INDIGOFERA TETLENSIS Klotzsch. Fabaceae.**

No. 1697. Between Pretorius Kop and Malelane. Jan. 16.

**209194. ISCHAEMUM GLAUCOSTACHYUM Stapf. Poaceae.**

No. 1792. Near Warmbaths. Feb. 2.

**209195. PANICUM DEUSTUM Thunb. Poaceae.**

No. 1652. Vicinity of Pretorius Kop. Jan. 14.

**209196. PANICUM LAEVIFOLIUM Hack.**

No. 1709. Near Skukuza, Kruger National Park. Jan. 18.

**209197 to 209203. PANICUM MAXIMUM Jacq.**

Guinea grass.

**209197. No. 1589. Near Pinaars River. Jan. 9.**

**209198. No. 1626. Vicinity of Pretorius Kop, Kruger National Park. Jan. 12.**

**209199. No. 1637. Between Pretorius Kop and Skukuza. Jan. 13.**

**209200. No. 1655. Vicinity of Pretorius Kop, Kruger National Park. Jan. 14.**

**209201. No. 1658. Vicinity of Pretorius Kop. Jan. 14.**

**209202. No. 1687. Kruger National Park. Jan. 11.**

**209203. No. 1704. Kruger National Park. Jan. 17.**



**209162 to 209229—Continued**

**209204. PENNISETUM CILIARE (L.) Link. Poaceae.**

No. 1716. Ten miles northeast of Punda Maria, Kruger National Park. Jan. 20.

**209205 to 209207. SETARIA FLABELLATA Stapf. Poaceae.**

209205. No. 1602. Eight miles east of Middelburg, Cape Province. Jan. 11.

209206. No. 1614. Twenty-three miles east of Machadodorp. Jan. 12.

209207. No. 1644. Between Pretorius Kop and Skukuza. Jan. 13.

**209208 to 209211. SETARIA HOLSTII Herrm.**

209208. No. 1689. Kruger National Park. Jan. 17.

209209. No. 1721. Between Punda Maria and Pafuri, Kruger National Park. Jan. 20, 1953.

209210. No. 1724. Pafuri, Kruger National Park. Jan. 21.

209211. No. 1732. Between Punda Maria and Pafuri, Kruger National Park. Jan. 21.

**209212. SETARIA LINDENBERGIANA (Nees) Stapf.**

No. 1738. Thirteen miles south of Nahoomspruit. Jan. 23.

**209213. SETARIA PERENNIS Hack.**

No. 1597. South of Hamanskraal. Jan. 9.

**209214. SETARIA SPHACELATA (Schum.) Stapf & Hubb.**

No. 1734. Potgietersrust. Jan. 23.

**209215 and 209216. SETARIA WOODII Hack.**

209215. No. 1619. Twenty-three miles east of Machadodorp. Jan. 12.

209216. No. 1733. Potgietersrust. Jan. 23.

**209217. SORGHUM HALEPENSE (L.) Pers. Poaceae.**

No. 1654. Vicinity of Pretorius Kop, Kruger National Park. Jan. 14.

**209218. SORGHUM VERSICOLOR Anderss.**

No. 1666. Vicinity of Pretorius Kop, Kruger National Park. Jan. 15.

**209219. SPOROBOLUS FIMBRIATUS var. LATIFOLIUS Stent. Poaceae.**

No. 1688. Kruger National Park. Jan. 17.

**209220. SPOROBOLUS PANICOIDES Rich.**

No. 1629. Vicinity of Pretorius Kop, Kruger National Park. Jan. 12.

**209221 to 209223. SPOROBOLUS PYRAMIDALIS Beauv.**

209221. No. 1622. Eight miles west of Nelspruit. Jan. 12.

209222. No. 1623. Eight miles west of Nelspruit. Jan. 12.

209223. No. 1677. Sixteen miles southeast of Pretorius Kop. Jan. 16.

**209224. TRISTACHYA PEDICELLATA Stent. Poaceae.**

No. 1737. Three miles south of Nahoomspruit. Jan. 23.

**209225. TRICHOLAENA MONACHNE (Trin.) Stapf & Hubb. Poaceae. Jan. 23.**

No. 1596. South of Hamanskraal. Jan. 9.

**209226 and 209227. UROCHLOA BOLDOIDES Stapf. Poaceae.**

209226. No. 1638. Between Pretorius Kop and Skukuza. Jan. 13.

209227. No. 1736. Potgietersrust. Jan. 23.

**209162 to 209229—Continued**

**209228.** *UROCHLOA MOSAMBICENSIS* (Hack.) Dandy.

No. 1735. Potgietersrust. Jan. 23.

**209229.** *UROCHLOA PULLULANS* Stapf.

No. 1726. Pafuri, Kruger National Park. Jan. 12.

**209230 and 209231.** *HIBISCUS CANNABINUS* L. Malvaceae. **Kenaf.**

From the Anglo-Egyptian Sudan. Seeds presented by the Ministry of Agriculture, Wad Medani. Received June 9, 1953.

**209230.** E.C.R. 985.

**209231.** E.C.R. 986.

**209232.** *VICIA FABA* L. Fabaceae.

**Broadbean.**

From England. Seeds presented by the Agricultural Research Council, Potato Genetics Station, Cambridge. Received June 9, 1953.

**209233 to 209254.**

From the Union of South Africa. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received June 8, 1953.

Collected in the Transvaal in 1953, unless otherwise stated.

**209233.** *ANDROPOGON AMPLECTANS* Nees. Poaceae.

No. 1873. Silverton. Feb. 17.

**209234.** *DIGITARIA DIAGONALIS* Stapf. Poaceae.

No. 1775. Along Delmas Road, near Pretoria. Jan. 27.

**209235.** *DIGITARIA ERIANTHA* Steud.

No. 1822. Four miles southeast of Groot Marico. Feb. 9.

**209236.** *DIGITARIA MILANJIANA* Stapf.

No. 1841. Between Bloemhof and Wolmarandstadt, Orange Free State.

**209237.** *DIGITARIA PENTZII* Stent.

No. 1801. Bottom of Waterkloof, Pretoria. Feb. 4.

**209238.** *DIGITARIA SETIVALVE* Stent.

No. 1826. Forty miles southwest of Mafeking, Cape Province. Feb. 10.

**209239.** *DIGITARIA SMUTSII* Stent.

No. 1883. Near Johannesburg. Feb. 18.

**209240.** *ENNEAPOGON SCOPARIUS* Stapf. Poaceae.

No. 1787. Near Pinaars River. Feb. 2.

**209241.** *FINGERHUTHIA AFRICANA* Lehm. Poaceae.

No. 1786. Near Pinaars River. Feb. 2.

**209242.** *HYPARRHENIA HIRTA* (L.) Stapf. Poaceae.

No. 1872. Silverton. Feb. 17.

**209243.** *BUDDLEIA SALVIFOLIA* (L.) Lam. Loganiaceae.

No. 1774. Along Delmas Road near Pretoria. Jan. 27.

**209244.** *PANICUM LAEVIFOLIUM* Hack. Poaceae.

No. 1821. Between Breetsvlei and Koster. Feb. 9.

**209233 to 209254—Continued**

209245 and 209246. *PANICUM MAXIMUM* Jacq. Guinea grass.

209245. No. 1711. Near Skukuza, Kruger National Park. Jan. 18.

209246. No. 1876. Feb. 17.

209247. *PENNISETUM CILIARE* (L.) Link. Poaceae.

No. 1703. Kruger National Park. Jan. 17.

209248. *SEHIMA GALPINII* Stent. Poaceae.

No. 1793. Near Warmbaths. Feb. 2.

209249. *SETARIA FLABELLATA* Stapf. Poaceae.

No. 1778. Along Delmas road near Pretoria. Jan. 27.

209250 and 209251. *SETARIA NIGRIROSTRIS* (Nees) Dur. & Schinz.

209250. No. 1776. Along Delmas road near Pretoria. Jan. 27.

209251. No. 1884. Near Johannesburg. Feb. 18.

209252. *SPHENOSTYLIS ANGUSTIFOLIA* Sond. Fabaceae.

No. 1780. Near Pretoria. Jan. 31.

209253. *SPOROBOLUS FIMBRIATUS* Nees. Poaceae.

No. 1788. Near Pinaars River. Feb. 2.

209254. *UROCHLOA TRICHOPUS* (Hochst.) Stapf. Poaceae.

No. 1877. Feb. 17.

**209255 to 209259. PHASEOLUS VULGARIS L. Fabaceae.**

**Common bean.**

From Peru. Seeds collected by A. F. Swanson, Agricultural Advisor, Foreign Agricultural Service, United States Department of Agriculture, Washington, D.C. Received June 10, 1953.

From the Agronomy Department, La Molina.

209255. *Bayo Agronomia.*

209258. *Panamito.*

209256. *Canario Agronomia.*

209259. *Plomo.*

209257. *Cocacho Selección L. M. No. 1.*

**209260 to 209263.**

From Maryland. Plants growing at the United States Plant Introduction Garden, Glenn Dale. Numbered June 11, 1953.

209260. *RHODODENDRON MAXIMUM* L. Ericaceae. **Rosebay rhododendron.**

209261. *RHODODENDRON MINUS* Michx.

209262. *RHODODENDRON PONTICUM* L.

209263. *RHODODENDRON.*

*America.* (Catawbiense hybrid.)

**209264 to 209266. CYMBOPOGON spp. Poaceae.**

From India. Seeds presented by the Office of the Economic Botanist, Department of Agriculture, Bangalore. Received June 11, 1953.

209264. *CYMBOPOGON CAESIUS* (Nees) Stapf.

209265. *CYMBOPOGON CITRATUS* (DC.) Stapf.

209266. *CYMBOPOGON NARDUS* (L.) Rendle.

**209267. DELPHINIUM AJACIS L. Ranunculaceae.**

From Iran. Seeds presented by Henry C. Lint, Agricultural Attaché, American Embassy, Tehran. Received June 12, 1953.

**209268. STROPHANTHUS VANDERIJSTII Staner. Apocynaceae.**

From the Belgian Congo. Seeds presented by J. Monachino, New York Botanical Garden, Bronx Park, N. Y. Received June 12, 1953.

Collected by H. Callens in the vicinity of Panzi.

**209269 and 209270. MALPIGHIA PUNICIFOLIA L. Malpighiaceae.  
West Indian cherry.**

From Puerto Rico. Seeds collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received June 12, 1953.

From Río Piedras. May 14, 1953.

209269. No. 443. Clone 21.

209270. No. 444. Clone B-17.

**209271 to 209278. TRITICUM DURUM Desf. Poaceae.**

**Durum wheat.**

From Australia. Seeds presented by the Department of Agriculture, Sydney, New South Wales. Received June 12, 1953.

209271. *Aleppo* × *Kuban* G 51/48.

209272. *Aleppo* × *Palestine* G 51/76.

209273. *Aleppo* × *Palestine* G 51/92.

209274. *Cyprus* × *Palestine* 2 G 51/57.

209275. *Cyprus* × *Palestine* 2 G 51/69.

209276. *Hadjira Blaca* × *Palestine* 2 G 51/111.

209277. *Hurani* × *Mindum* G 51/65.

209278. *Joppa* × *Durity* G 51/89.

**209279. DIOSCOREA sp. Dioscoreaceae.**

From Mexico. Seeds collected by H. S. Gentry, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received June 16, 1953.

No. 12587. Tihuatlán, Veracruz. April 1953.

**209280 to 209302. CARTHAMUS TINCTORIUS L. Asteraceae.**

**Safflower.**

From Canada. Seeds presented by B. C. Jenkins, University of Saskatchewan, Saskatoon. Received June 15, 1953.

The original sources of the material are given.

209280. No. 5200. Ankara, Turkey.

209281. No. 5204. Haifa, Israel.

209282. No. 5205. *Australian Spineless*. Australia.

209283. No. 5301. *Common Russian*. Soviet Union.

209284. No. 5302. *Special Russian*. Soviet Union.

209285. No. 5304. N-744 (I.P. 20). Soviet Union.

209286. No. 5307. N-976. Rumania.

209287. No. 5308. N-977. Rumania.

209288. No. 5311. N-2101. India.

209289. No. 5315. N-2129. Africa.

209290. No. 5319. El Saff, Egypt.



## 209280 to 209302—Continued

209291. No. 5324. N-7. Nagpur, India.  
 209292. No. 5325. *Perkell*. U.S. Department of Agriculture.  
 209293. No. 5326. Ethiopia.  
 209294. No. 5327. *Sudan* ECR-772. Kenya.  
 209295. No. 5328. *Sudan* ECR-774. Kenya.  
 209296. No. 5329. *Madras* C.T. 11. Kenya.  
 209297. No. 5330. *Madras* C.T. 38-10-11. Kenya.  
 209298. No. 5331. *Madras* C.T. 60. Kenya.  
 209299. No. 5332. *Madras* C.T. 63. Kenya.  
 209300. No. 5333. *Madras* C.T. 66. Kenya.  
 209301. No. 5334. *Poona* N-60. Kenya.  
 209302. No. 5335. *Sudan* 804-21-3.

## 209303 to 209310.

From the Anglo-Egyptian Sudan. Seeds presented by the Ministry of Agriculture, Khartoum North. Received June 15, 1953.

- 209303 to 209306. *GOSSYPIMUM*. Malvaceae. Cotton.  
 209303. *ATS* 6 × *ANCB* 2. 309305. *RA* 32-2.  
 209304. *RA* 32-1. 209306. *UA* 33-15.  
 209307. *GOSSYPIMUM AREYSIANUM* (Deflers) Hutch.  
*WE* 3-2.  
 209308 and 209309. *GOSSYPIMUM ROBINSONII* F. Muell.  
 209308. *WC* 2-1.  
 209309. *WC* 2-1/528.  
 209310. *STURTIA GOSSYPIOIDES* R. Br. Malvaceae.  
*WC* 1-4.

209311. *DIOSCOREA BULBIFERA* L. Dioscoreaceae.

From Honduras. Tubers presented by Pompilio Ortega, La Libertad, Comayagua. Received June 16, 1953.

## 209312 to 209327.

From the Virgin Islands. Seeds collected by D. S. Correll and J. C. Miller, Agricultural Explorers, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received June 15, 1953.

Collected in 1953; from Saint Croix Island unless otherwise stated.

- 209312 and 209313. *CAJANUS CAJAN* (L.) Druce. Fabaceae. Pigeonpea.  
 309312. No. 553. Market, Charlotte Amalie, Saint Thomas. May 23.  
 209313. No. 559. Glynn. May 26.  
 209314. *CANAVALIA MARITIMA* (Aubl.) Thouars. Fabaceae.  
 No. 582. Sandy Point. May 27.  
 209315. *CLITORIA TERNATA* L. Fabaceae.  
 No. 563. Mary's Fancy. May 26.  
 209316. *CROTALARIA* sp. Fabaceae.  
 No. 570. Glynn. May 26.

**209312 to 209327—Continued**

209317. *DOLICHOS LABLAB* L. Fabaceae. Hyacinth-bean

No. 590. Saint John's. May 28.

209318. *GALACTIA* sp. Fabaceae.

No. 564. Mary's Fancy. May 26.

209319. *IPOMOEA* sp. Convolvulaceae.

No. 583. Little Grange. May 27.

209320 and 209321. *NICOTIANA TABACUM* L. Solanaceae. Common tobacco.

209320. No. 584. Little Grange. May 27.

209321. No. 607. On grounds of Buccaneer Hotel. May 30.

209322. *PHASEOLUS LUNATUS* L. Fabaceae.

Lima bean.

No. 606. Slob. May 29.

209323 to 209326. *RICINUS COMMUNIS* L. Euphorbiaceae.

Castorbean.

209323. No. 536. Near Benders, Saint Thomas. May 23.

209324. No. 543. Above Perseverance Bay, Saint Thomas. May 24.

209325. No. 568. Anna's Hope. May 26.

209326. No. 578. Near Alexander Hamilton Airport. May 27.

209327. *TERAMNUS LABIALIS* (L.) Spreng. Fabaceae.

No. 562. Mary's Fancy. May 26.

209328. *LYCORIS RADIATA* (L'Her.) Herbert. Amaryllidaceae.

From Maryland. Plants growing at the United States Plant Introduction Garden, Glenn Dale. Numbered June 16, 1953.

Originally from garden of B. Y. Morrison, Takoma Park, Md.; presented to him by E. Q. Knight, Takoma Park.

209329. *MEDICAGO SATIVA* L. Fabaceae.

Alfalfa.

From Turkey. Seeds presented by the Turkish Minister of Agriculture, Ankara. Received June 16, 1953.

*Kayseri.*

209330. *MEDICAGO SATIVA* L. Fabaceae.

Alfalfa.

From Ethiopia. Seeds presented by H. W. Staten, American Embassy, Addis Ababa. Received June 16, 1953.

209331 to 209340. *GLYCINE MAX* (L.) Merrill. Fabaceae.

Soybean.

From Japan. Seeds presented by Tomio Nakane, Sapporo, Hokkaido.

Received June 16, 1953.

209331. No. 1.

209336. No. 6.

209332. No. 2.

209337. No. 7.

209333. No. 3.

209338. No. 8.

209334. No. 4.

209339. No. 9.

209335. No. 5.

209340. No. 10.

**209341 to 209349.**

From Hawaii. Seeds presented by the Department of Horticulture and Genetics, University of Hawaii, Honolulu. Received June 17, 1953.

209341. *BRASSICA OLERACEA* var. *BOTRYTIS* L. Brassicaceae. Cauliflower.

*Pua Kea.*

## 209341 to 209349—Continued

209342. *LACTUCA SATIVA* L. Cichoriaceae. Lettuce.  
*Kaala.*
- 209343 to 209349. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato.
209343. *Hawaii.* 209347. *Molokai.*
209344. *Kauai.* 209348. *Niihau.*
209345. *Lanai.* 209349. *Oahu.*
209346. *Maui.*

## 209350 to 209408.

From the Union of South Africa. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received June 17, 1953.

Collected in 1953; from Prinshof Experiment Station, Pretoria, Transvaal, unless otherwise stated.

- 209350 and 209351. *ACANTHOSICYOS HORRIDA* Welw. Cucurbitaceae.
209350. No. 1960. Walvis Bay.
209351. No. 1960a. Walvis Bay. Sept. 3.
209352. *ANDROPOGON EUCOMUS* Nees. Poaceae.
- No. 1887. Twenty miles southeast of Newcastle, Natal. Feb. 20.
- 209353 and 209354. *ANDROPOGON INSCULPTUS* Hochst.
209353. No. 1893. Five miles northeast of Ladysmith, Natal. Feb. 20.
209354. No. 1910. Near Pietermaritzburg, Natal. Feb. 23.
209355. *BOTHRIOCHLOA INTERMEDIUS* (R. Br.) A. Camus. Poaceae.
- No. 2004. Mar. 11.
209356. *ARUNDINELLA ECKLONII* Nees. Poaceae.
- No. 2002. Mar. 11.
209357. *BOTHRIOCHLOA GLABRA* (Roxb.) A. Camus. Poaceae.
- No. 1923. Near Pietermaritzburg, Natal. Feb. 27.
209358. *BRACHIARIA HUMIDICOLA* (Rendle) Schweick. Poaceae.
- No. 1999. Mar. 11.
209359. *BRACHIARIA STOLONIFERA* Goosens.
- No. 2000. Mar. 11.
209360. *CHLORIS GAYANA* Kunth. Poaceae. Rhodes grass.
- No. 1912. Bisley, near Pietermaritzburg, Natal. Feb. 23.
209361. *CYRTANTHUS FLANAGANII* Baker. Amaryllidaceae.
- No. 1928. Pietermaritzburg, Natal. Mar. 1.
209362. *DICHILUS STRICTUS* E. Mey. Fabaceae.
- No. 1888. Twenty-five miles northeast of Ladysmith, Natal. Feb. 20.
209363. *DIGITARIA DECUMBENS* Stent. Poaceae.
- No. 1946. Mar. 4.
209364. *DIGITARIA DIAGONALIS* Stapf.
- No. 1915. Near Dargle, Natal. Feb. 25.
209365. *DIGITARIA SMUTSII* Stent.
- No. 1945. Mar. 4.

## 209350 to 209408—Continued

209366. *DIGITARIA* sp.

No. 1922. Mar. 4.

209367 and 209368. *DIGITARIA NATALENSIS* Stent.

209367. No. 1896. Near Pietermaritzburg, Natal. Feb. 20.

209368. No. 1925. Natal. Mar. 1.

209369 and 209370. *DIGITARIA PENTZII* Stent.

209369. No. 1892. Five miles northeast of Ladysmith, Natal. Feb. 20.

209370. No. 1944. Mar. 4.

209371. *DIGITARIA SETIVALVE* Stent.

No. 1871. Silverton, Transvaal. Feb. 17.

209372 to 209375. *DIGITARIA VALIDA* Stent.209372. No. 1823. Between Zurust and Ottoshoop, Transvaal. Feb. 9.  
Received as *D. stolonifera*, an apparently unpublished name.

209373. No. 1907. Bisley, near Pietermaritzburg, Natal. Feb. 23.

209374. No. 1948. Mar. 4.

209375. No. 1965. Mar. 4.

209376. *DIGITARIA* sp.

No. 1947.

209377. *DIGITARIA* sp.

No. 1964.

209378. *DIMORPHOTHECA AURANTIACA* DC. Asteraceae.

No. 1980. Union Building Gardens, Pretoria. Sept. 10.

209379. *DIMORPHOTHECA SPECTABILIS* Schlecht.

No. 1882. Near Johannesburg, Transvaal. Feb. 18.

209380. *DIOSCOREA DREGEANS* (Kunth) Dur. & Schinz. Dioscoreaceae.

No. 1901. Near Pietermaritzburg, Natal. Feb. 22.

209381. *DIOSCOREA SYLVATICA* Ecklon.

No. 1890. Twenty-five miles northeast of Ladysmith, Natal. Feb. 19.

209382. *ECHINOCLOA HOLUBII* Stapf. Poaceae.

No. 2005. Mar. 11.

209383. *ERAGROSTIS PLANA* Nees. Poaceae.

No. 1918. Near Dargle, Natal. Feb. 25.

209384. *ERAGROSTIS COLLOCARPA* K. Schum.

No. 1917. Near Dargle, Natal. Feb. 25.

209385. *ERAGROSTIS ROBUSTA* Stent.

No. 1919. Near Dargle, Natal. Feb. 25.

209386. *HYPARRHENIA BUCHANANII* Stapf. Poaceae.

No. 1894. Five miles northeast of Ladysmith, Natal. Feb. 20.

209387. *HYPARRHENIA DREGEANA* Stapf.

No. 1895. Five miles northeast of Ladysmith, Natal. Feb. 20.

209388. *HYPARRHENIA HIRTA* (L.) Stapf.

No. 1916. Near Dargle, Natal. Feb. 25.



**209350 to 209408—Continued**

209389. *ISCHAEMUM BRACHYATHERUM* (Hochst.) Fenzl. Poaceae.

No. 1996. Mar. 11.

209390. *LESSERTIA STRICTA* (L.) Bolus. Fabaceae.

No. 1889. Twenty-five miles northeast of Ladysmith, Natal. Feb. 20.

209391. *PANICUM LAEVIFOLIUM* Hack. Poaceae.

No. 1886. Near Standerton, Transvaal. Feb. 20.

209392. *PANICUM MAXIMUM* Jacq.

Guinea grass.

No. 1911. Bisley, near Pietermaritzburg, Natal. Feb. 23.

209393. *PASPALUM NOTATUM* Fluegge. Poaceae.

Bahia grass.

No. 1924. Near Pietermaritzburg, Natal. Feb. 27.

209394. *PENNISETUM VILLOSUM* R. Br. Poaceae.

No. 1985. Mar. 11.

209395. *SETARIA LINDENBERGIANA* (Nees) Stapf. Poaceae.

No. 1951. Mar. 4.

209396. *SETARIA PERBERBIS* DeWit.

No. 1908. Bisley, near Pietermaritzburg, Natal. Feb. 23.

209397 and 209398. *SETARIA PHRAGMITOIDES* Stapf.

209397. No. 1941. Mar. 4.

209398. No. 1993. Mar. 11.

209399 to 209403. *SETARIA SPHACELATA* (Schum.) Stapf & Hubb.

209399. No. 1920. Near Dargle, Natal. Feb. 25.

209400. No. 1939. Mar. 4.

209401. No. 1942. Mar. 4.

209402. No. 1950. Mar. 4.

209403. No. 1952. Mar. 4.

209404. *SPOROBOLUS CAPENSIS* (Willd.) Kunth. Poaceae.

No. 1989. Mar. 11.

209405 to 209407. *SPOROBOLUS FIMBRIATUS* Nees.

209405. No. 1824. Between Zurust and Ottoshoop, Transvaal. Feb. 9.

209406. No. 1842. Between Bloemhof and Wolmarandstadt, Orange Free State. Feb. 12.

209407. No. 1995. Mar. 11.

209408. *SPOROBOLUS PYRAMIDALIS* Beauv.

No. 1913. Bisley, near Pietermaritzburg, Natal. Feb. 23.

209409. *CHAMAEDOREA CONCOLOR* Mart. Phoenicaceae. **Palm.**

From Florida. Plant growing at the United States Plant Introduction Garden, Coconut Grove. Numbered June 16, 1953.

Received from Washington in 1929.

**209410 to 209434. SOLANUM TUBEROSUM L. Solanaceae. Potato.**

From Argentina. Presented by Professor Enrique H. Brucher, Universidad Nacional de Tucumán, Tucumán. Received June 19, 1953.

Material was received as tubers unless otherwise stated.

209410. No. 56. 209423. No. 70.

209411. No. 57. (Seeds.) 209424. No. 71.

209412. No. 58. 209425. No. 72.

209413. No. 59. 209426. No. 73.

209414. No. 60. 209427. No. 74.

209415. No. 61. 209428. No. 76.

209416. No. 62. 209429. No. 77.

209417. No. 63. 209430. No. 78.

209418. No. 64. 209431. No. 79.

209419. No. 65. 209432. No. 80.

209420. No. 66. 209433. No. 81.

209421. No. 67. 209434. No. 82.

209422. No. 69.

**209435 and 209436. RICINUS COMMUNIS L. Euphorbiaceae.**

**Castorbean.**

From the Canal Zone. Seeds presented by the Arkansas Agricultural Mission, Institute of Inter-American Affairs, Panama City. Received June 19, 1953.

209435. No. 1. Collected in the Chitre area, Herrera Province.

209436. No. 2. Collected from wild plants growing around Panama City.

**209437 to 209516.**

From Mexico and Central America. Seeds collected by O. W. Norvell, Carnegie Institution of Washington, Stanford, Calif. Received June 19, 1953.

209437. CANAVALIA sp. Fabaceae.

No. 3824. Río Grande de Alajuela, Costa Rica.

209438. CANAVALIA sp.

No. 3883. Frigal de Rinon de Acatenango, Guatemala.

209439. CICER ARIETINUM L. Fabaceae.

**Chickpea.**

No. 3846. Cartago, Costa Rica.

209440. CITRUS LIMON (L.) Burm. f. Rutaceae.

**Lemon.**

No. 3710. San Cristóbal de las Casas, Chiapas, Mexico.

209441 and 209442. CITRUS SINENSIS (L.) Osbeck.

**Orange.**

209441. No. 3709. San Cristóbal de las Casas, Chiapas, Mexico.

209442. No. 3797. San Isidro del General, Costa Rica.

209443. CRATAEGUS sp. Malaceae.

No. 3744. Sacatepéquez, Guatemala.

209444. CROTALARIA sp. Fabaceae.

No. 3777. Province of San José, Costa Rica.

209445. CROTALARIA sp.

No. 3778. Province of San José, Costa Rica.

## 209437 to 209516—Continued

209446. *DIOSCOREA* sp. Dioscoreaceae.

No. 3819. Quebradas de Río Grande de Alajuela, Costa Rica.

209447. *LENS CULINARIS* Medic. Fabaceae.

Lentil.

No. 3844. Cartago, Costa Rica.

209448. *LINUM USITATISSIMUM* L. Linaceae.

Flax.

No. 3838. Cartago, Costa Rica.

209449. *PACHYRHIZUS EROSUS* (L.) Urban. Fabaceae.

No. 3806. Las Cañas, Costa Rica.

209450 and 209451. *PHASEOLUS ATROPURPUREUS* DC. Fabaceae.

209450. No. 3850. Panajachel, Sololá, Guatemala.

209451. No. 3851. Panajachel, Sololá, Guatemala.

209452. *PHASEOLUS COCCINEUS* L.

Scarlet runner bean.

No. 3835. Cartago, Costa Rica.

209453 to 209457. *PHASEOLUS LUNATUS* L.

Lima bean.

209453 to 209455. From Panajachel, Sololá, Guatemala.

209453. No. 3855.

209454. No. 3854.

209455. No. 3853.

209456. No. 3870. Antigua, Guatemala.

209457. No. 3884. Acatenango, Guatemala.

209458. *PHASEOLUS POLYANTHUS* Greenm.

No. 3836. Cartago, Costa Rica.

209459 to 209505. *PHASEOLUS VULGARIS* L.

Common bean.

209459 to 209464. Tuxtla Gutiérrez, Chiapas, Mexico.

209459. No. 3702.

209462. No. 3705.

209460. No. 3703.

209463. No. 3706.

209461. No. 3704.

209464. No. 3707.

209465. No. 3708. Cintalapa, Chiapas, Mexico.

209466 to 209470. San Cristóbal de las Casas, Chiapas, Mexico.

209466. No. 3711.

209469. No. 3714.

209467. No. 3712.

209470. No. 3715.

209468. No. 3713.

209471 to 209476. Tapachula, Chiapas, Mexico.

209471. No. 3716.

209474. No. 3719.

209472. No. 3717.

209475. No. 3720.

209473. No. 3718.

209476. No. 3721.

209477. No. 3745. Jinotega, Nicaragua.

209478. No. 3746. Jinotega, Nicaragua.

209479 to 209481. Market, Jinotega, Nicaragua.

209479. No. 3747.

209480. No. 3749.

209481. No. 3750.

**209437 to 209516—Continued****209459 to 209505—Continued**

209482 to 209492. Acosta San Ignacio, San José, Costa Rica.

209482. No. 3779.

209488. No. 3785.

209483. No. 3780.

209489. No. 3786.

209484. No. 3781.

209490. No. 3787.

209485. No. 3782.

209491. No. 3788.

209486. No. 3783.

209492. No. 3789.

209487. No. 3784.

209493. No. 3807. Market, Las Cañas, Guanacaste, Costa Rica.

209494. No. 3925. Chimbolo, Cartago, Costa Rico.

209495 to 209503. Market, Cartago, Costa Rica.

209495. No. 3826.

209500. No. 3833.

209496. No. 3827.

209501. No. 3834.

209497. No. 3828.

209502. No. 3837.

209498. No. 3829.

209503. No. 3832.

209499. No. 3830.

209504. No. 3881. Cerro de Santa Cruz, Costa Rica.

209505. No. 3886. Acatenango, Costa Rica.

209506 and 209507. PISUM SATIVUM L. Fabaceae.

Pea.

209506. No. 3842. Cartago, Costa Rica.

209507. No. 3843. Cartago, Costa Rica.

209508. RUBUS sp. Rosaceae.

No. 3751. Province of Cartago, Costa Rica.

209509. RUBUS sp

No. 3752. Near Paraíso, suburbs of Cartago, Costa Rica.

209510. RUBUS sp.

No. 3753. Near Paraíso, suburbs of Cartago, Costa Rica.

209511. RUBUS sp.

No. 3759. Province of San José, Costa Rica.

209512. RUBUS sp.

No. 3776. Province of San José, Costa Rica.

209513 and 209514. SORGHUM VULGARE Pers. Poaceae.

209513. No. 3751. Jinotepe, Nicaragua.

209514. No. 3839. Cartago, Costa Rica.

209515 and 209516. ZEA MAYS L. Poaceae.

Corn.

209515. No. 3840. Cartago, Costa Rica.

209516. No. 3841. Cartago, Costa Rica.

209517 to 209522. ORYZA SATIVA L. Poaceae.

Rice.

From Italy. Seeds presented by Sergio Orsi, University of Florence, Florence. Received June 22, 1953.

209517. *Arborio*.209520. *Stirpe 136*.209518. *Maratelli*.209521. *R.B.*209519. *Sesia*.209522. *No. 82*.



## 209523. BAUHINIA VARIEGATA L. Caesalpinaceae.

From Florida. Plant growing at the United States Plant Introduction Garden, Coconut Grove. Numbered June 23, 1953.

*Alba*. Origin unknown.

209524. PRUNUS PERSICIA (L.) Batsch. Amygdalaceae. **Peach.**

From New Zealand. Scions presented by the Department of Scientific and Industrial Research, Auckland. Received June 23, 1953.

*Black Boy*.

## 209525 to 209532.

From Spain. Budsticks presented by L. J. Klotz, Valencia. Received June 23, 1953.

209525. CITRUS LIMON (L.) Burm. f. Rutaceae.

**Lemon.**

*Berna*.

209526 to 209532. CITRUS SINENSIS (L.) Osbeck.

**Orange.**

209526. *Berna*. Torrente.

209527. *Blood Navel*. Torrente.

209528. *Cadenera Seedless*. Carcagente.

209529. *Comuna*. Alcira.

209530. *Salustiana*. Alcira.

209531. *Sanguina Doblefinia*. Carcagente.

209532. *Sanguina Murteras*. Alcira.

209533 to 209560. IPOMOEA BATATAS (L.) Lam. Convolvulaceae.  
**Sweetpotato.**

From Cuba. Roots collected by D. S. Correll, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md., and Dr. Julian Acuña, Estación Experimental Agronómica, Santiago de las Vegas. Received June 23, 1953.

Collected in June 1953.

209533 to 209535. Market, Camagüey.

209533. No. 615. *Temporal*. Skin reddish purple; flesh cream.

209534. No. 616. Skin dark purplish red; flesh white to lemon yellow.

209535. No. 617. Skin bright purplish red; flesh white.

209536. No. 631. *Mani Amarillo*. North of Victoria de las Tunas, Oriente. Skin tan; flesh light cream.

209537 to 209540. Near Puerto Padre, Oriente.

209537. No. 634. *Rompe Diente*. Skin tan; flesh rich cream.

209538. No. 635. *Rosita*. Skin purplish red; flesh deep rich cream.

209539. No. 636. *Miseria*. Skin rough and dark tan; flesh cream.

209540. No. 637. Skin smooth and tan; flesh very light cream.

209541. No. 644. Market, Santiago de Cuba, Oriente. Skin reddish purple; flesh very light yellow.

209542 to 209547. Market, Bayamo, Oriente.

209542. No. 659. Skin tan pink; flesh white.

209543. No. 660. *Jiguanicero*. Skin rose pink; flesh white.

209544. No. 661. *Martinico*. Skin purplish red; flesh rich cream.

**209533 to 209560—Continued****209542 to 209547—Continued**

209545. No. 662. *Pon la Nava*. Skin tan; flesh rich deep cream.

209546. No. 663. *Negro Congo*. Skin reddish brown; flesh light cream.

209547. No. 664. Skin flesh color; flesh cream.

209548. No. 670. Market, Holguín, Oriente. Skin flesh color; flesh light cream.

209549. No. 671. Market, Holguín, Oriente. Skin brownish or purplish red; flesh light cream.

209550. No. 672. Market, Cueto, Oriente. Skin pinkish brown; flesh light cream.

209551. No. 673. Market, Cueto, Oriente. Skin rose pink brown; flesh very light cream.

**209552 to 209554. Market, Mayarí, Oriente.**

209552. No. 676. Skin tan; flesh rich cream.

209553. No. 681. *Miseria*. Skin flesh color; flesh cream.

209554. No. 682. Skin pinkish white; flesh cream.

**209555 to 209557. Near Aguas Verdes, Oriente.**

209555. No. 690. *Dagame*. Skin brilliant, purplish red; flesh white.

209556. No. 691. Skin pinkish white; flesh cream.

209557. No. 692. *Miseria*. Skin tan; flesh cream.

209558. No. 699. Near Margarita, Camagüey. Skin reddish brown; flesh rich light orange.

209559. No. 703. Market, Sancti-Spíritus, Camagüey. Skin beet-red; flesh cream.

209560. No. 704. Market, Sancti-Spíritus, Camagüey. Skin reddish pink; flesh light cream.

**209561. ALLIUM CEPA L. Liliaceae****Onion.**

From Cuba. Bulbs collected by D. S. Correll, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md., and Dr. Julian Acuña, Estación Experimental Agronómica, Santiago de las Vegas, Cuba. Received June 24, 1953.

No. 702. *Crellio*. Market, Sancti-Spíritus, Camagüey. June 17, 1953.

**209562 to 209573. TRIFOLIUM PRATENSE L. Fabaceae.****Red clover.**

From Sweden. Seeds presented by W. Weibull, Landskrona. Received June 25, 1953.

209562. *Arsunda*.

209568. *Mukur*.

209563. *Auga; Bolluas*.

209569. *Nybyu*.

209564. *Brukke*.

209570. *Offer*.

209565. *Hjalmarsnas*.

209571. *Skultana*.

209566. *Kilafors*.

209572. *U 036*.

209567. *Kustrask*.

209573. *Ultuna*.

**209574. CRANIOLARIA ANNUA L. Martyniaceae.****Sugar-root.**

From Venezuela. Seeds presented by Bruno Mazzani, Jefe de la Sección de Oleaginosas, Maracay, Aragua. Received June 25, 1953.

*Escorzonera*.

**209575. GUADUA ANGUSTIFOLIA Kunth. Poaceae. Bamboo.**

From Puerto Rico. Plants presented by the Federal Experiment Station, Mayagüez. Received June 26, 1953.

**209576. MANGIFERA INDICA L. Anacardiaceae. Mango.**

From the Philippine Islands. Plants presented by A. C. Pelagallo, Manila. Received June 29, 1953.

*Caribou.*

**209577 and 209578. GLYCINE MAX (L.) Merrill. Fabaceae Soybean.**

From Japan. Seeds presented by Tomio Nakane, Sapporo, Hokkaido. Received June 30, 1953.

Separated from material introduced under PI 209340.

209577. No. 10. Black Seeds.

209578. No. 10. Brown Seeds.

**209579 and 209580.**

From the Union of South Africa. Seeds collected by R. K. Godfrey, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received June 30, 1953.

209579. DIGITARIA SMUTSII Stent. Poaceae.

No. 1806. Rietvlei Agricultural Research Station, Rietvlei, near Pretoria, Transvaal. Feb. 5, 1953. Military camp strain.

209580. TRIFOLIUM AFRICANUM Ser. Fabaceae.

No. 1922. Ten miles west of Mooi River, Natal. Feb. 25, 1953.

**209581 to 209588.**

From Japan. Seeds presented by A. Moriya, Utsunomiya University, Tochigi-ken. Received July 1, 1953.

209581. ARUNDINELLA HIRTA var. CILIATA (Thunb.) Koidz. Poaceae.

209582. MISCANTHUS OLIGOSTACHYUS Stapf. Poaceae.

209583. MISCANTHUS SINENSIS Anderss.

209584. MISCANTHUS TINCTORIUS (Steud.) Hack.

209585. PANICUM BISULCATUM Thunb. Poaceae.

209586. PENNISETUM ALOPECUROIDES (L.) Spreng. Poaceae.

209587. SETARIA GLAUCA (L.) Beauv. Poaceae.

209588. SORGHUM VULGARE Pers. Poaceae.

**209589 to 209623.**

From Cuba. Seeds collected by D. S. Correll, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md., and Dr. Julian Acuña, Estación Experimental Agronómica, Santiago de las Vegas. Received July 1, 1953.

Collected in 1953.

**209589 and 209590. CAPSICUM FRUTESCENS L. Solanaceae. Redpepper.**  
Market, Camagüey, Camagüey. June 11.

209589. No. 618. *Sazonadores; Eachucha.* Fruit small, 1½ inches long, bitter.

209590. No. 619. Fruit 1 to 2 inches long, sweet.

## 209589 to 209623—Continued

209591 and 209592. *CLITORIA TERNATEA* L. Fabaceae.

Churchwell Experiment Station, Mayarí, Oriente. June 15.

209591. No. 679. Flowers white.

209592. No. 680. Flowers blue.

209593 to 209618. *GOSSYPIMUM*. Malvaceae.

Cotton.

209593 to 209617. Oriente. June 12 to 16.

209593. No. 632. Puerto Padre. Shrub 6 feet tall.

209594. No. 638. Near Puerto Padre. Tree 20 feet tall.

209595. No. 641. Yareya. Shrub 8 feet high; fiber light brown.

209596. No. 642. Yareya. Shrub 8 feet high; fiber white.

209597. No. 654. Siboney.

209598. No. 655. Santiago de Cuba. Shrub 8 feet high.

209599. No. 656. Near Santiago de Cuba.

209600. No. 657. Las Cruces. Shrub 10 feet high.

209601. No. 658. Near Santa Rita. Shrub 10 feet high.

209602. No. 665. North of Bayamo. Shrub 8 feet high, fiber light brown.

209603. No. 666. Near Cacocum. Plant 15 feet high.

209604 to 209606. Between Cacocum and Holguín.

209604. No. 667. Shrub 8 feet high.

209605. No. 668. Shrub 10 feet high; fiber brown.

209606. No. 669. Shrub 10 feet high; fiber white.

209607. No. 674. Santa Isabel de Nipe. Shrub 5 feet high.

209608. No. 675. Juan Vicente. Shrub 10 feet high; fiber light brown.

209609 to 209611. Mayarí.

209609. No. 683. Shrub 8 feet high; seeds conglomerate.

209610. No. 684. Shrub up to 10 feet high.

209611. No. 685. Shrub 10 feet high.

209612. No. 686. Juan Vicente. Shrub 8 feet high.

209613. No. 687. Barajagua. Shrub 10 feet high; fiber light brown.

209614. No. 688. Barajagua. Shrub up to 10 feet high; fiber white.

209615. No. 694. Near Báguanos. Tree 20 feet high.

209616. No. 695. Holguín. Tree 15 feet high.

209617. No. 698. Perades. Shrub 8 feet high.

209618. No. 701. Near Margarita, Camagüey. Tree 20 feet high; bolls tight.

209619. *INDIGOFERA* sp. Fabaceae.

No. 678. Churchwell Experiment Station, Mayarí, Oriente. May 15. Creeping, drought-resistant.

209620. *PHASEOLUS LUNATUS* L. Fabaceae.

Lima bean.

No. 643. Market, Santiago de Cuba, Oriente. June 13.

209621. *PHASELOUS VULGARIS* L.

Common bean.

No. 677. Churchwell Experiment Station, Mayarí, Oriente. June 15. Cuban form of *Black Valentine*.



**209589 to 209623—Continued**

**209622 and 209623.** *RICINUS COMMUNIS* L. Euphorbiaceae. **Castorbean.**

**209622.** No. 633. Near Puerto Padre, Oriente. June 12. Plants 7 feet tall.

**209623.** No. 689. Barajagua, Oriente. June 15. Plants 2 to 6 feet tall, mostly single-stemmed.

**209624 to 209641.**

From Sicily. Budsticks presented by L. J. Klotz, Stazione Sperimentale, Acireale. Received July 3, 1953.

**209624.** *CITRUS RETICULATA* Blanco. Rutaceae. **Mandarin orange.**  
*Avaná.*

**209625 to 209629.** *CITRUS LIMON* (L.) Burm. f. **Lemon.**

**209625.** *Cocuzzaro.* **209628.** *Lunario.*

**209626.** *Femminello.* **209629.** *Monachello.*

**209627.** *Interdonato.*

**209630 to 209640.** *CITRUS SINENSIS* (L.) Osbeck. **Orange.**

**209630.** *Belladonna.* **209636.** *Sanguinello Mascato Cuscuna.*

**209631.** *Clementine.* **209637.** *Sanguinello Pignu.*

**209632.** *Moro Francofon.* **209638.** *Tarocco.*

**209633.** *Ovale.* **209639.** *Tarocco a Grappoli.*

**209634.** *Sanguinello Doppio Mascato.* **209640.** *Vaccaro.*

**209635.** *Sanguinello Mascato.*

**209641.** *CITRUS VOLKAMERIANA* Pasq.

**209642.** *PRUNUS PERSICA* (L.) Batsch. Amygdalaceae. **Peach.**

From Kenya. Seeds presented by the Department of Agriculture, Horticultural Station, Molo. Received July 3, 1953.

Seeds collected from trees having a small chilling requirement, and bearing large highly colored fruits.

**209643.** *JUGLANS NEOTROPICA* Diels. Juglandaceae.

From Ecuador. Seeds presented by the Departamento Forestal, Quito. Received July 3, 1953.

**209644 to 209647.** *SPINACIA OLERACEA* L. Chenopodiaceae. **Spinach.**

From Iran. Seeds presented by the U. S. Technical Cooperation Administration for Iran, Shiraz Plant Science Section, Shiraz. Received July 7, 1953.

**209644.** No. 1. **209646.** No. 3.

**209645.** No. 2. **209647.** No. 4.

**209648 to 209652.**

From California. Plants growing at the Huntington Botanical Garden, San Marino, and at Murrieta. Numbered July 7, 1953.

Collected by H. S. Gentry in Baja California, Mexico. May 27 and 28, 1953.

**209648 and 209649.** *AGAVE SHAWII* Engelm. Amaryllidaceae.

**209648.** No. 12607. Four to five miles south of Arroyo Seco.

**209649.** No. 12608. Steep slope by sea between Ensenada & Rosarito.

**209648 to 209652—Continued**

**209650 to 209652. YUCCA PENINSULARIS** McKelvey. Liliaceae.

Summit of Sierra San Miguel, about 21 miles east of Rosario.

**209650.** No. 12604. Variety with straight, thick, glaucous leaves.

**209651.** No. 12605. Variety with falcate leaves which are longer than No. 12604.

**209652.** No. 12606. Variety with small rosettes and small straight leaves.

**209653 to 209662. CAPSICUM FRUTESCENS L.** Solanaceae.**Redpepper.**

From India. Seeds obtained through the Agricultural Experiment Station, State College, New Mexico. Numbered July 7, 1953.

**209653.** *Khursani*. Very pungent; pod slender, yellow.

**209654.** *Lamani*.

**209655.** *Laringia*.

**209656.** *Limdi*.

**209657.** Improved selection No. 32. Pod very slender, small.

**209658.** No. 80-1.

**209659.** No. 183-2. Pod rough, long and slender.

**209660.** No. 223-2. Pod rough, very slender.

**209661.** No. 462. Pod very slender.

**209662.** No. 469. Pod long, slender.

**209663 to 209696. PHASEOLUS spp.** Fabaceae.

From Colorado. Seeds obtained through Donald R. Wood, Colorado Agricultural and Mechanical College, Fort Collins. Originally from Mexico unless otherwise noted.

**209663 to 209669. PHASEOLUS COCCINEUS L.**

**Scarlet runner bean.**

**209663.** No. 1. From Hidalgo.

**209667.** No. 6. From Puebla.

**209664.** No. 2. From Puebla.

**209668.** No. 7. From Aguascalientes.

**209665.** No. 4. From Hidalgo.

**209669.** No. 9. From Puebla.

**209666.** No. 5. From Hidalgo.

**209670 to 209696. PHASEOLUS VULGARIS L.**

**Common bean.**

**209670.** No. 10. From Puebla.

**209671.** No. 11. From Puebla.

**209672.** No. 12. (No data.)

**209673.** No. 13. From Colombia.

**209674.** No. 14. (No data.)

**209675.** No. 15. From Puebla.

**209676.** No. 16. From Chiapas.

**209677.** No. 17. From Cuba.

**209678.** No. 18. From Chiapas.

**209679 to 209681.** From Veracruz.

**209679.** No. 19.

**209680.** No. 20.

**209681.** No. 21.

**209663 to 209696—Continued****209670 to 209696—Continued**

209682 to 209688. From Chiapas.

209682. No. 22.

209686. No. 26.

209683. No. 23.

209687. No. 27.

209684. No. 24.

209688. No. 28.

209685. No. 25.

209689 to 209693. From Tabasco.

209689. No. 29.

209692. No. 32.

209690. No. 30.

209693. No. 33.

209691. No. 31.

209694. No. 34. From Yucatan.

209695. No. 35. From Yucatan.

209696. No. 36. From Veracruz.

**209697. FRAGARIA sp. Rosaceae.****Strawberry.**

From India. Seeds collected by W. N. Koelz, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received July 7, 1953.

No. 11824. Mawphlang, Khasi Hills, Assam. June 25, 1953. Fruits small, one-half inch in diameter, whitish, with pleasant flavor. Fruits remain unaffected by days of continuous rain even when ripe; plant tolerates saturated or near-saturated air for 4 months.

**209698. CITRUS LIMON (L.) Burm. f. Rutaceae.****Lemon.**

From French Morocco. Seeds presented by M. Cuenot, Chef du Service de l'Horticulture, Rabat. Received July 8, 1953.

*Limouette de Marrakech.***209699. ORYZA SATIVA L. Poaceae.****Rice.**

From Burma. Seeds presented by L. E. McGary, S.T.E.M. c/o American Embassy, Rangoon. Received July 8, 1953.

**209700. ANDROPOGON sp. Poaceae.**

From India. Seeds presented by the American Consul, Madras. Received July 10, 1953.

**209701. METHYSTICODENDRON AMESIANUM R.E. Schultes.****Solanaceae.**

From Colombia. Cuttings collected by Richard Evans Schultes, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received July 13, 1953.

*Culebra Borrachero.* From Sibundey, Putumayo. July 1953. A new genus, related to *Datura*.

**209702 to 209747.**

From California. Plants growing at the Huntington Botanical Garden, San Marino. Numbered July 13, 1953.

Collected in Mexico in 1952 by H. S. Gentry.

**209702. AGAVE sp. Amaryllidaceae.**

No. 12062. Eighteen miles northeast of Oaxaca City along road to Ixtlán, La Cumbre. Aug. 29.

## 209702 to 209747—Continued

## 209703. AGAVE sp.

No. 12079. About 6 miles northeast of Oaxaca City along road to Ixtlán, La Cumbre, Aug. 29.

## 209704. AGAVE sp.

No. 12106. Six to seven miles south of Miahuatlán, Oaxaca, along new road over Sierra Madre del Sur. Altitude 6,500 feet.

## 209705. AGAVE sp.

No. 1211. About 2 miles northwest of Yanhuittan, Oaxaca. Sept. 4.

## 209706. AGAVE sp.

No. 12120. Seven miles northwest of Tehuitzingo and Acatlas, Puebla, Sept. 6.

## 209707. AGAVE MARMORATA Roezl.

No. 12121. Between Tehuitzingo and Acatlas, Puebla, along highway to Chiapas. Sept. 6.

## 209708. AGAVE sp.

No. 12132. Four to five miles southeast of Nochistlán, Oaxaca, along highway to Chiapas. Sept. 7.

## 209709. AGAVE sp.

No. 12200. In rocky fields, Comitán, Chiapas. Sept. 21.

## 209710. AGAVE sp.

No. 12203. Twenty-five miles east of Tuxtla Gutiérrez, Chiapas. Sept. 21.

## 209711. AGAVE sp.

No. 12204. Highway along Rio Chiapas, Chiapas. Sept. 21.

## 209712. AGAVE sp.

No. 12227. Mesa de Capaya, 7 miles south of Tuxtla Gutiérrez, Chiapas. Sept. 28.

## 209713. AGAVE sp.

No. 12234. Thirty-six miles west of Sanatepec, Oaxaca; on rock cliff south of highway, about 26 miles east of Tehuantepec. Sept. 29.

## 209714. AGAVE sp.

No. 12235. Pan American Highway and Transisthmus Highway, 41 km. east of Tehuantepec, Oaxaca. Sept. 29.

## 209715. AGAVE sp.

No. 12241. Twelve miles north of Tehuantepec, Oaxaca. Sept. 30.

## 209716. AGAVE sp.

No. 12245. Forty-five miles north of Tehuantepec along highway.

## 209717. AGAVE sp.

No. 12247. Km. 660, highway to Tehuantepec, Oaxaca. Sept. 30.

## 209718. AGAVE sp.

No. 12251. Four km. southwest of Zacatepec Mixes, Oaxaca, Sept. 23.

## 209719. AGAVE sp.

No. 12252. Patio de Arona, Sierra Zampoaltepec, Oaxaca, about 12 km. west of Zacatepec Mixes. Sept. 24.



**209702 to 209747—Continued****209720. AGAVE sp.**

No. 12263. Twenty to twenty-five miles southeast of Huajuápan, Oaxaca, along highway. Oct. 5.

**209721. AGAVE DEWEYANA Trel.**

No. 12265. Henequin Plantation Carrisal, north of Manud, Tamaulipas. Originally from Victoria City.

**209722. AGAVE sp.**

No. 12268. About 22 miles east of Mante, Tamaulipas. Oct. 11.

**209723 to 209726. From Hidalgo, Sierra Madre Oriental.****209723. AGAVE sp.**

No. 12270. Seven miles east of Jacala. Oct. 12.

**209724. AGAVE sp.**

No. 12272. Twelve miles west of Jacala.

**209725. AGAVE sp.**

No. 12273. Forty-three miles west of Jacala, along highway to Mexico City.

**209726. AGAVE sp.**

No. 12274. Fifty-three miles west of Jacala. Oct. 12.

**209727. AGAVE sp.**

No. 12287. Acultzingo, Veracruz. Oct. 16.

**209728. AGAVE sp.**

No. 12288. Twenty-two to twenty-four km. southeast of Tehuacán, Puebla, along highway to Veracruz.

**209729. AGAVE MITRAEFORMIS Jacobi.**

No. 12289. Twenty-two to twenty-four km. northeast of Tehuacán, Puebla, along road to Veracruz. Oct. 16.

**209730. AGAVE sp.**

No. 12292. About 20 miles west of Cholula, Puebla, on highway to Mexico. Oct. 17.

**209731. AGAVE ATROVIRENS Karw.**

No. 12293. About 20 miles west of Cholula, Puebla, along highway to Mexico. Oct. 17.

**209732. AGAVE sp.**

No. 12310. About 3 miles east of Carapán, Michoacán. Oct. 21.

**209733. AGAVE sp.**

No. 12312. Cherán, Michoacán, on road to Uruapán. Oct. 21.

**209734. AGAVE sp.**

No. 12362. About 8 miles west of San José del Cabo, Baja California. Nov. 26.

**209735. AGAVE sp.**

No. 12370. San Antonio, Baja California. Nov. 27.

**209736. AGAVE sp.**

About 2 miles north of San Xavier, Baja California. Dec. 2.

**209737. AGAVE AUREA Brandeg.**

No. 12338. About 5 miles south of La Paz, Baja California. Nov. 20.

**209702 to 209747—Continued****209738. AGAVE FEROX** C. Koch.

No. 12126. Tejupan, Oaxaca, along highway to Chiapas. Sept. 8.

**209739. AGAVE PROMONTORI** Trel.

No. 11218. Sierra Laguna, Baja California. Oct. 3.

**209740. ANANAS COMOSUS** (L.) Merr. Bromeliaceae.**Pineapple.**

No. 12220. Rancho Piedra Parada, northwest of Ocozocuahtla, Chiapas. Excellent variety with small, nonacid fruits with small core. Sept. 26.

**209741. EUPHORBIA** sp. Euphorbiaceae.

No. 12421. Twenty-two miles southwest of Commdu, Baja California. Nov. 30.

**209742. FOUQUIERIA PENINSULARIS** Nash. Fouquieriaceae.

No. 12398. Five miles northwest of Mesquital, Baja California. Dec. 6.

**209743. FURCRAEA** sp. Amaryllidaceae.

No. 12201. About 15 miles south of Cristobal Casas, along highway to Comitán. Sept. 21.

**209744. FURCRAEA** sp.

No. 12249. One km. south of Zacatepec Mixes, Oaxaca. Sept. 23.

**209745. MANFREDA** sp. Amaryllidaceae.

No. 12309. Three or four miles west of Ziracuaretiro, Michoacán. Oct. 20.

**209746. MANFREDA** sp.

No. 12316. Canon del Marquis, south of Uruapán, Michoacán. Oct. 22.

**209747. PENIOCEREUS** sp. Cactaceae.

No. 12381. About 3 miles north of San Xavier, Baja California. Dec. 2.

**209748 and 209749. LINUM USITATISSIMUM** L. Linaceae. **Flax.**

From the Netherlands. Seeds presented by the Rijksproefstation voor Zaadcontrole, Binnenhaven, Wageningen. Received July 14, 1953.

**209748. Z 11637.****209749. Z 11691.****209750. GOSSYPIUM.** Malvaceae.**Cotton.**

From Cuba. Seeds collected by D. S. Correll, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. and Dr. Julian Acuña, Estación Experimental Agronómica, Santiago de las Vegas. Received July 14, 1953.

No. 610. Santiago de las Vegas. June 8, 1953. Fibers chocolate-brown; seeds black.

**209751 to 209758. BRASSICA OLERACEA** var. **BOTRYTIS** L.

Brassicaceae.

**Cauliflower.**

From the Netherlands. Seeds presented by the Institute for the Advancement of Horticultural Crops, Wageningen. Received July 14, 1953.

**209751. Snowball Extra Early.****209755. Improved Super Snowball.****209752. Snowball Early.****209756. Maligne.****209753. Snowball Nr. 12.****209757. Dry Weather.****209754. Super Snowball.****209758. All the Year Round.**

**209759 and 209760.**

From Japan. Plants presented by Eikichi Satomi, Setagaya-ku, Tokyo.  
Received July 15, 1953.

209759. *ANTHERICUM JAPONICUM* Thunb. Liliaceae.

209760. *RHODODENDRON QUINQUEFOLIUM* Biss. & Moore. Ericaceae.

**209761. SORGHUM VULGARE Pers. Poaceae.**

From Swaziland. Seeds presented by the Swaziland Irrigation Scheme,  
Colonial Development Corporation, Mananga. Received July 16, 1953.

**209762 to 209769. SACCHARUM. Poaceae.****Sugarcane.**

From the Union of South Africa. Cuttings presented by the Experiment  
Station, South African Sugar Association, Mount Edgecombe, Natal.  
Received July 16, 1953.

209762. *N:Co. 292.*

209766. *N:Co. 382.*

209763. *N:Co. 293.*

209767. *N:Co. 310* × *Miscanthus violaceum.*

209764. *N:Co. 339.*

209768. *P.O.J. 2725* × *Miscanthus violaceum 585.*

209765. *N:Co. 376.*

209769. *P.O.J. 2725* × *Miscanthus violaceum 593.*

**209770 and 209771.**

From Argentina. Tubers presented by Enrique Brucher, Universidad Na-  
cional de Tucumán, through the American Embassy, Buenos Aires.  
Received July 17, 1953.

209770. *SOLANUM* sp. Solanaceae.

No. 83.

209771. *SOLANUM* sp.

No. 84.

**209772. ULMUS PUMILA L. Ulmaceae.****Chinese elm.**

From Canada. Seeds presented by Skinner's Nursery, Ltd., Dropmore, Mani-  
toba. Received July 17, 1953.

*Harbin strain.*

**209773 to 209776. ORYZA SATIVA L. Poaceae.****Rice.**

From Italy. Seeds presented by Sergio Casati, Bologna. Received July 20,  
1953.

209773. *Arborio Tipo.*

209775. *Sancio P.6 Tipo.*

209774. *Rizzotto Tipo.*

209776. *Vialone Nero Tipo.*

**209777 to 209798.**

From Germany. Seeds presented by Prof. E. von Boguslawski, Institut für  
Pflanzenbau und Pflanzenzüchtung der Justus-Liebig-Hochschule, Gies-  
sen. Received July 20, 1953.

209777 to 209780. *AVENA SATIVA L. Poaceae.*

**Oats.**

209777. *Heine's Silber II.*

209779. *NOS Nackthafer.*

209778. *Lohmann's Weender IV.*

209780. *Petkuser Flamingsgold.*

209781. *BRASSICA JUNCEA (L.) Coss.*

Brassicaceae.

**Chinese mustard.**

St. 40/44.

209782. *BRASSICA NIGRA (L.) Koch.*

**Black mustard.**

St. 226/49.

209783. *CUCURBITA PEPO L. Cucurbitaceae.*

**Pumpkin.**

*Giessener Ölkurois.*

## 209777 to 209798—Continued

209784. HORDEUM sp. Poaceae.

Barley.

*Ackermann's Donaria.*

209785. HORDEUM sp.

*Firlbeck's III.*

209786. HORDEUM sp.

*Heines's Haisa II.*

209787. HORDEUM sp.

*Klosterkammer II.*

209788. HORDEUM sp.

*Streng's Domina.*

209789. LATHYRUS SATIVUS L. Fabaceae.

Bittervetch.

*Giessener Bunte Platterbse.*

209790. PANICUM MILIACEUM L. Poaceae.

Proso.

*Giessener Goldrispe.*

209791. RAPHANUS SATIVUS L. Brassicaceae.

Radish.

*Siletta.*

209792. SORGHUM TECHNICUM Batt. &amp; Trab. Poaceae.

*Frühe Rote.*

209793 to 209798. TRITICUM AESTIVUM L. Poaceae.

Common wheat.

209793. *Carsten's VII.*209796. *Lohmanns Weener I.*209794. *Heine's VII.*209797. *NOS Nordgau.*209795. *Heine's Koga II.*209798. *Peragis II.*

209799 to 209817. PHASEOLUS VULGARIS L. Fabaceae.

Common bean.

From Kenya. Seeds presented by the Department of Agriculture, Nairobi.  
Received July 22, 1953.

209799. *Gatuwe.*209809. *Ndulya.*209800. *Inzausi Ngao.*209810. *Nthingi.*209801. *Kapumbu.*209811. *Nziu.*209802. *Kibariki.*209812. *Syi Maa.*209803. *Kiniti.*209813. *Syi Nuuku.*209804. *Kikaa.*209814. *Waiyu.*209805. *Kisola.*209815. *No. III.*209806. *Mauta.*209816. *No. IV.*209807. *Mwanga.*209817. *No. II.*209808. *Mweiumwe.*

209818 to 209822. GOSSYPIUM. Malvaceae.

Cotton.

From India. Seeds collected by W. N. Koelz, Collaborator, Bureau of Plant  
Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received  
July 22, 1953.

209818. No. 11800. Ten miles above Loharband on the Aijal road, Lushai  
Hills.

209819. No. 11801. Ten miles above Loharband on the Aijal road, Lushai  
Hills.



**209818 to 209822—Continued**

209820. No. 11802. Zanlan, on the Aijal road, Lushai Hills.

209821. No. 11803. Zanlan, on the Aijal road, Lushai Hills.

209822. No. 11807. Assam.

**209823 and 209824.**

From Trinidad. Seeds presented by the Department of Agriculture. Received July 22, 1953. Port of Spain.

209823. CYMBOPOGON MARTINII (Roxb.) W. Wats. Poaceae.

209824. SORGHUM sp. Poaceae.

**209825 to 209828.**

From Italy. Seeds presented by Vincenzo Carrante, Director of the Agricultural Experiment Station, Bari. Received July 23, 1953.

209825. HEDYSARUM CORONARIUM L. Fabaceae.

Sulla.

209826. MEDICAGO SATIVA L. Fabaceae.

Alfalfa.

*Ascolana.*

209827. ONOBRYCHIS VICIAEFOLIA Scop. Fabaceae.

Sainfoin.

209828. TRIGONELLA FOENUM-GRÆCUM L. Fabaceae.

Fenugreek.

**209829. TETRACHNE DREGEI Nees. Poaceae.**

From the Union of South Africa. Seeds presented by the Chief, Division of Crops and Pastures, Pretoria, Transvaal. Received July 23, 1953.

**209830. COFFEA. Rubiaceae.**

Coffee.

From the Belgian Congo. Seeds presented by the INEAC, Mulungu. Received July 24, 1953.

**209831 to 209839. GLYCINE MAX (L.) Merr. Fabaceae. Soybean.**

From India. Seeds presented by G. V. Bowers, American Embassy, New Delhi. Received May 12, 1953.

Selections made at the Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md., July 20, 1953, as follows:

209831. From PI. No. 208430. Seeds brown.

209832. From PI. No. 208435. Seeds green.

209833. From PI. No. 208435. Seeds yellow.

209834. From PI. No. 208435. Seeds brown.

209835. From PI. No. 208436. Seeds brown.

209836. From PI. No. 208437. Seeds brown.

209837. From PI. No. 208439. Seeds yellow.

209838. From PI. No. 208439. Seeds black.

209839. From PI. No. 208439. Seeds green.

**209840 and 209841. PYRUS CALLERYANA Decaisne. Malaceae.**

Callery pear.

From Maryland. Plants growing at the United State Plant Introduction Garden, Glenn Dale. Numbered July 27, 1953.

209840. *F. C. Bradford*. A selected seedling from P.I. 47261, introduced from Nanking, China. This variety is of value as an ornamental for street or lawn planting.

209841. A seedling selection of the *F. C. Bradford*, remarkable for its dwarf habit.

**209842 to 209850. COFFEA spp. Rubiaceae.**

From the Belgian Congo. Seeds presented by the INEAC, Malungu. Received July 27, 1953.

**209842 to 209848. COFFEA ARABICA L.**

**Arabian coffee.**

209842. *Geisha*.

209846. *Local Bronze No. 9*.

209843. *Harrar*.

209847. *Local Bronze No. 12*.

209844. *Jackson No. 2*.

209848. *Local Bronze Tout Venant*.

209845. *Local Bronze No. 8*.

**209849 and 209850. COFFEA EUGENOIDES S. Moore.**

**Coffee.**

209849. Originally from Astrida, Ruanda-Urundi.

209850. From Nioka.

**209851 to 209854.**

From Washington. Bulbs presented by the Department of Agriculture, Division of Horticulture, Seattle. Received July 27, 1953.

**209851. COLCHICUM BORNMUELLERI Freyn. Liliaceae.**

**209852. COLCHICUM sp.**

*Israeli.*

**209853. COLCHICUM sp.**

*Mr. Herbert.*

**209854. COLCHICUM sp.**

*The Giant.*

**209855. EPIDENDRUM ONCIDIoidES var. GRAVIDUM (Lindl.) Ames, Schweinf., & Tubb. Orchidaceae.**

From Peru. Plants presented by Felipe Garcia Velasquez, Tarapoto. Received Feb. 18, 1953; numbered July 29, 1953.

**209856. COFFEA ARABICA L. Rubiaceae.**

**Arabian coffee.**

From the Belgian Congo. Seeds presented by the INEAC, Yangambi. Received July 29, 1953.

*Mysore.*

**209857 to 209861.**

From Greece. Seeds presented by Dr. Demetrios A. Panos, American Mission Agricultural Station, Athens. Received Aug. 3, 1953.

**209857. CICER ARIETINUM L. Fabaceae.**

**Chickpea.**

M. 2169.

**209858. LENS CULINARIS Medic. Fabaceae.**

**Lentil.**

F. 1.

**209859 and 209860. LATHYRUS CICERA L. Fabaceae.**

209859. L. 92.

209860. M. 245.

**209861. VICIA ERVILLA (L.) Willd. Fabaceae.**

**Vetch.**

M. 1008.

**209862 to 209864. CITRUS spp. Rutaceae.**

From Spain. Budsticks presented by L. J. Klotz, Valencia. Received Aug. 4, 1953.

**209862 and 2209863. CITRUS LIMON (L.) Burm. f.**

**Lemon.**

209862. *Mesero.*

209863. *Ricote.*

**209864. CITRUS SINENSIS (L.) Osbeck.**

**Orange.**

*Maceteras.*

**209865. PRUNUS DOMESTICA L. Amygdalaceae. Common plum.**

From Australia. Cuttings presented by H. E. Franklin, Poziers, Queensland, Victoria. Received August 4, 1953.

*Wilson.*

**209866 to 209868.**

From Iraq. Seeds presented by H. W. Springfield, Baghdad. Received Aug. 4, 1953.

From near Khanaquin, Iraq. Collected May 8, 1953.

**209866. ASTRAGALUS DACTYLOCARPUS Boiss. Fabaceae.**

**209867. MEDICAGO RADIATA L. Fabaceae.**

**209868. ONOBRYCHIS LANATA Boiss. Fabaceae.**

**209869. IPOMOEA BATATAS (L.) Lam. Convolvulaceae.**

**Sweetpotato.**

From New Zealand. Roots presented by A. M. W. Greig, Department of Agriculture, Wellington. Received August 5, 1953.

*Reke Mauroa.* From Kawakawa, North Island.

**209870. AGAVE sp. Amaryllidaceae.**

From Guatemala. Seeds collected by H. S. Gentry, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Feb. 1953.

No. 12447. Chiquimula.

**209871 and 209872. ERAGROSTIS SUPERBA Peyr. Poaceae.**

From Tanganyika. Seeds presented by H. J. van Remsburg, Pasture Research Officer, Mpwapwa. Received Aug. 6, 1953.

**209871.** Mbulu, Northern Province.

**209872.** Mombo, Korogwe, Tanga Province.

**209873 to 209876. CARICA PAPAYA L. Caricaceae.**

**Papaya.**

From the Union of South Africa. Seeds presented by the Agricultural Attaché, American Embassy, Pretoria, Transvaal. Received Aug. 10, 1953.

**209873.** *Hortus Gold.*

**209875.** 1951/1496.

**209874.** 1951/1493.

**209876.** 1951/1517.

**209877. OLEA sp. Oleaceae.**

From the Union of South Africa. Seeds presented by the Government Horticulturist, Research Station, Upington, through the American Embassy, Pretoria, Transvaal. Received Aug. 10, 1953.

**209878 to 209884. PENNISETUM PURPUREUM Schumach. Poaceae.**  
**Napier grass.**

From Tanganyika. Seeds presented by D. C. Thomas, Kawanda Research Station, Kampala, Uganda. Aug. 11, 1953.

- |  |  |
|--|--|
| 209878. No. 1. Leaves narrow and pilose. | 209882. No. 10. Leaves broad and pilose. |
| 209879. No. 2.                           | 209883. No. 11. Leaves pilose.           |
| 209880. No. 6. Leaves narrow.            | 209884. No. 12.                          |
| 209881. No. 8.                           |  |

**209885 to 209907.**

From Australia. Seeds presented by Dr. William Hartley, Commonwealth Scientific and Industrial Research Organization, Canberra. Received Aug. 12, 1953.

209885. *DACTYLIS GLOMERATA* L. Poaceae. Orchard grass.  
 No. C.P.I. 2145.

**209886 to 209907. *DACTYLIS GLOMERATA* var. *HISPANICA* (Roth) Duby.**

- |                           |                         |
|---------------------------|-------------------------|
| 209886. No. C.P.I. 13797. | 209897. No. C.P. 14677. |
| 209887. No. C.P.I. 14067. | 209898. No. C.P. 15008. |
| 209888. No. C.P.I. 14068. | 209899. No. C.P. 15139. |
| 209889. No. C.P. 14133.   | 209900. No. C.P. 15140. |
| 209890. No. C.P. 14134.   | 209901. No. C.P. 15211. |
| 209891. No. C.P. 14401.   | 209902. No. C.P. 15212. |
| 209892. No. C.P. 14402.   | 209903. No. 15564.      |
| 209893. No. C.P. 14403.   | 209904. No. 15565.      |
| 209894. No. C.P. 14480.   | 209905. No. 15566.      |
| 209895. No. C.P. 14481.   | 209906. No. 15567.      |
| 209896. No. C.P. 14676.   | 209907. No. 15568.      |

**209908 and 209909.**

From the Union of South Africa. Seeds presented by A. A. Pitout, Nylstroom, Transvaal. Received Aug. 12, 1953.

209908. *GLYCINE MAX* (L.) Merrill. Fabaceae. Soybean.  
 209909. *SETARIA ITALICA* (L.) Beauv. Poaceae. Foxtail millet.

**209910 to 209930.**

From Australia. Seeds presented by William Hartley, Commonwealth Scientific and Industrial Research Organization, Canberra. Received Aug. 13, 1953.

209910. *DESMODIUM CANUM* (Gmel.) Schinz & Thell. Fabaceae.  
 C.P.I. 11794. From Brisbane, Queensland.
209911. *DESMODIUM UNCINATUM* (Jacq.) D.C.  
 C.P.I. 11741. From Brisbane, Queensland.
209912. *MEDICAGO HISPIDA* var. *SARDOA* Asch. & Graebn. Fabaceae.  
 S1. Burclover.
209913. *MEDICAGO TRIBULOIDES* Desr. Barrel medic.  
 C.P.I. 12636.



**209910 to 209930—Continued**209914. *NEURACHNE MITCHELLIANA* Nees. Poaceae.

A. 342.

209915. *PANICUM ANTIDOTALE* Retz. Poaceae.

N. 118.

209916. *PHASEOLUS LATHYROIDES* L. Fabaceae.

C.P.I. 12368.

209917. *STYLOSANTHES GRACILIS* H.B.K. Fabaceae.

C.P. 11 5630.

209918. *STYLOSANTHES SUNDAICA* Taub.

Q. 65.

209919 to 209930. *TRIFOLIUM SUBTERRANEUM* L. Fabaceae.

Subterranean clover.

209919. *Yarloop*. V. 45.209925. *Smeaton*. A. 344.209920. *Mount Barker*. A. 331.209926. *Bena*. A. 357.209921. *Tallarook*. A. 332.209927. *Bass*. A. 360.209922. *Nangeela*. A. 339.209928. *Merino*. A. 362.209923. *Mulwala*. A. 340.209929. *Dqalganup*. A. 379.209924. *Madrid*. A. 341.209930. *Bacchus Marsh*. A. 383.**209931 and 209932. PRUNUS PERSICA (L.) Batsch. Amygdalaceae. Peach.**

From California. Trees growing at the United States Plant Introduction Garden, Chico. Numbered Aug. 13, 1953.

209931. Seedling of P.I. 141163. (P. 1-4)

209932. Seedling of P.I. 141165. (P 1-12)

**209933 to 209938. ORYZA SATIVA L. Poaceae.**

Rice.

From Taiwan. Seeds presented by Eikichi Iso, Technical Consultant, MSA, Taipei. Received Aug. 13, 1953.

209933. No. 1.

209936. No. 4.

209934. No. 2.

209937. No. 5.

209935. No. 3.

209938. No. 6.

**209939. MALUS SYLVESTRIS Mill. Malaceae.**

Apple.

From the Union of South Africa. Cuttings presented by F. B. Harrington, Deepdale, Natal. Received Aug. 17, 1953.

A subtropical apple growing on the hot, frost-free coast of Natal north of Durban. The large fruits resemble *Rome Beauty* in flavor.**209940. GLYCINE MAX (L.) Merrill. Fabaceae.**

Soybean.

From India. Seeds presented by Krafft Freiherr v. Crailsheim, Jr., Amerang, Bavaria, Germany. Received Aug. 17, 1953.

Grown at Darjeeling, Bengal.

**209941. ANDROPOGON ANNULATUS Forsk. Poaceae.**

Polwan.

From Iraq. Seeds collected by H. W. Springfield at Abu Ghraib Experiment Station, Baghdad. Received Aug. 17, 1953.

**209942 and 209943.**

From Australia. Seeds presented by Jack Coltson, Melbourne, Victoria.  
Received Aug. 17, 1953.

**209942.** *BRASSICA OLERACEA* var. *CAPITATA* L. Brassicaceae. Cabbage.  
*Jersey.*

**209943.** *CAJANUS CAJAN* (L.) Druce. Fabaceae. Pigeonpea.

**209944 and 209945.** *PRUNUS PERSICA* (L.) Batsch. Amygdalaceae.  
Peach.

From Maryland. Cuttings obtained from Leon Havis, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Numbered Aug. 14, 1953.

**209944.** Beltsville 7-1029.

**209945.** Beltsville 10392.

**209946 to 209948.** *CASSIA* spp. Caesalpinaceae.

From Taiwan. Seeds presented by Yuen-liang Ku, Department of Agronomy, National Taiwan University, Taipei. Received Aug. 17, 1953.

**209946.** *CASSIA LESCHENAULTIANA* DC.

**209947.** *CASSIA MIMOSOIDES* L.

**209948.** *CASSIA TORA* L.

**209949 to 209962.** *SACCHARUM*. Poaceae. Sugarcane.

From Jamaica. Cuttings presented by the Sugar Research Department, Mandeville. Received Aug. 17, 1953.

**209949.** F.C. 916.

**209956.** B 47361.

**209950.** B 4381.

**209957.** B 47419.

**209951.** B 47204.

**209958.** B 48125.

**209952.** B 4744.

**209959.** B 48126.

**209953.** B 47225.

**209960.** B 49198.

**209954.** B 47310.

**209961.** B 49397.

**209955.** B 47320.

**209962.** B 50377.

**209963 to 209970.**

From Ethiopia. Seeds presented by H. W. Staten, Imperial Ethiopian College of Agriculture and Mechanical Arts, Addis Ababa. Received Aug. 17, 1953.

**209963.** *ALBIZZIA LOPHANTHA* (Willd.) Benth. Mimosaceae.

**209964.** *GUIZOTIA ABYSSINICA* (L.f.) Cass. Asteraceae.

**209965.** *SESAMUM INDICUM* L. Pedaliaceae. Sesame.

**209966 to 209969.** *SORGHUM VULGARE* Pers. Poaceae.

**209966.** From Haramya, Harar Province. Yellow endosperm.

**209967.** Selected from Yellow Milo-Crook Neck. From Haramya, Harar Province.

**209968.** From Fitchi, Shoa Province.

**209969.** From Fitchi, Shoa Province.

**209970.** *TRIFOLIUM TEMBENSE* Fres. Fabaceae.

**209971. VIGNA SINENSIS (Torner) Savi. Fabaceae. Cowpea.**

From Japan. Seeds presented by K. Matsuoka, Shikoku Agricultural Experiment Station, Zentsuji, Shikoku. Received Aug. 18, 1953.

*Turu Nashi Wase Sasage.*

**209972. AVENA SATIVA L. Poaceae. Oats.**

From Peru. Seeds presented by A. F. Swanson, Agricultural Advisor, Institute of Inter-American Affairs, Lima. Received Aug. 18, 1953.

*Havira.* From José Luíz Raez, Concepción.

**209973 to 209978.**

From South America. Seeds presented by M. E. Gallegly, Morgantown, W. Va. Received Aug. 18, 1953.

**209973. CYPHOMANDRA BETACEA (Cav.) Sendt. Solanaceae. Tree-tomato.**

Collected by Victor Patino, Huancana, La Paz, Bolivia.

**209974 to 209977. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.**

**209974.** *Peron.* Collected by T. M. Theis, Mayagüez, Puerto Rico.

**209975 to 209977.** Collected by Victor Patino, Chulumani, Bolivia.

**209975.** *Redondo.*

**209976.** *Rinon.*

**209977.** *Chulumani.*

**209978. LYCOPERSICON HIRSUTUM Humb. & Bonpl.**

Collected by Victor Patino, Instituto Nacional de Agricultura, Maracay, Venezuela.

**209979. PHALARIS ARUNDINACEA L. Poaceae. Red canary grass.**

From Siberia. Seeds planted at the Regional Introduction Station, Ames, Iowa. Numbered Aug. 19, 1953.

Obtained from Siberia by C. V. Porter, Postmaster, Menomonie, Wis.

**209980 and 209981. COIX LACRYMA-JOBI L. Poaceae. Jobs-tears.**

From Belgian Congo. Seeds presented by INEAC, Yangambi. Received Aug. 19, 1953.

**209980.** Hull white, thin.

**209981.** Hull brown, hard.

**209982. MEDICAGO SATIVA L. Fabaceae. Alfalfa.**

From Peru. Seeds presented by A. F. Swanson, Agricultural Advisor, Institute of Inter-American Affairs, Lima. Received Aug. 21, 1953.

*San Pedro.*

**209983 to 209985.**

From Argentina. Seeds presented by Enrique C. Clos, Ministerio de Agricultura, Buenos Aires. Received Aug. 21, 1953.

**209983. PASPALUM PLICATULUM Michaux. Poaceae.**

SD 53-199.

**209984. PASPALUM PROLIFERUM Arch.**

SD 53-200.

**209985. PHORMIUM TENAX Forst. Liliaceae.**

*Formio*, DEIP 12.606.

- 209986. TRIFOLIUM REPENS L. Fabaceae. White clover.**  
From Turkey. Seeds presented by L. L. Scranton, American Embassy, Ankara. Received Aug. 24, 1953.
- 209987 to 209996. ORYZA SATIVA L. Poaceae. Rice.**  
From Taiwan. Seeds presented by Hwang Cheng Hwa, Agricultural Research Institute, Taipei. Received Aug. 24, 1953.
- |  |  |
|--|--|
| 209987. <i>Chungnoon</i> No. 4. China. | 209992. <i>Kuanfu</i> No. 401.         |
| 209988. <i>Elanzoon</i> . Native.      | 209993. <i>Noonyu</i> No. 1805.        |
| 209989. <i>Hudan</i> No. 4. China.     | 209994. <i>Noonyu</i> No. 1830.        |
| 209990. <i>Kaohsiang</i> No. 24.       | 209995. <i>Taichung</i> No. 65.        |
| 209991. <i>Kuanfu</i> No. 1.           | 209996. <i>Taipei Wu-quo</i> . Native. |
- 209997 to 210015.**  
From India. Seeds presented by R. D. Asana, Indian Agricultural Research Institute, New Delhi. Received Aug. 25, 1953.
- 209997 and 209998. ABELMOSCHUS FICULNEUS Wight & Arn. Malvaceae.**  
209997. I.W. 255.  
209998. I.W. 131.
- 209999. ABELMOSCHUS MANIHOT (L.) Medic.**  
I.W. 212.
- 210000. HIBISCUS PUNGENS Roxb. Malvaceae.**  
I.W. 129.
- 210001. ABELMOSCHUS MOSCHATUS (L.) Medic. Malvaceae.**  
E.C. 1502.
- 210002. ABELMOSCHUS sp.**  
I.W. 130.
- 210003. ABELMOSCHUS sp.**  
I.W. 495.
- 210004 to 210006. COIX LACRYMA-JOBI L. Poaceae. Jobs-tears.**  
210004. I.W. 618.  
210005. I.W. 619.  
210006. I.W. 696.
- 210007. PLANTAGO AMPLEXICAULIS Cav. Plantaginaceae.**  
I.W. 24.
- 210008. SOLANUM AURICULATUM Ait. Solanaceae.**
- 210009. SOLANUM AVICULARE Forst. f.**
- 210010. SOLANUM DULCAMARA L.**
- 210011 and 210012. SOLANUM NIGRUM L.**  
210011. Fruits black.  
210012. Fruits red.
- 210013. SOLANUM SEAFORTHIANUM Andr.**
- 210014. SOLANUM VERBASICIFOLIUM L.**  
I.W. 46.
- 210015. SOLANUM sp.**



## 210016 to 210027.

From India. Seeds collected by Walter N. Koelz, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Aug. 26, 1953.

From Kolasib, North Lushai Hills, Assam.

210016. *CAPSICUM FRUTESCENS* L. Solanaceae. Redpepper.

No. 11809.

210017. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. Watermelon.

No. 11817.

210018. *COIX LACRYMA-JOBI* L. Poaceae. Jobs-tears.

No. 11820.

210019. *CUCUMIS SATIVUS* L. Cucurbitaceae. Cucumber.

No. 11811.

210020. *CUCURBITA MOSCHATA* Duchesne. Cucurbitaceae. Cushaw.

No. 11816.

210021. *DOLICHOS LABLAB* L. Fabaceae. Hyacinth-bean.

No. 11821. Immature seeds and pods eaten as vegetables.

210022. *GLYCINE MAX* (L.) Merrill. Fabaceae. Soybean.

No. 11808.

210023. *MOMORDICA CHARANTIA* L. Cucurbitaceae. Balsam-pear.

No. 11818.

210024. *PERILLA FRUTESCENS* (L.) Britton. Menthaceae.

No. 11819.

210025 and 210026. *SOLANUM MELONGENA* L. Solanaceae. Eggplant.

210025. No. 11814. The bitter type; fruits red.

210026. No. 11812.

210027. *VIGNA SINENSIS* (Torner) Savi. Fabaceae. Cowpea.

210028. *PRUNUS DOMESTICA* L. Amygdalaceae. Common plum.

From New England. Cuttings presented by the Fruit Research Station, Auckland. Received Aug. 26, 1953.

Buck.

210029 to 210056. *SOLANUM* spp. Solanaceae.

From South America. Seeds collected by Eduardo V. Viirsoo, National University of Tucumán, Argentina. Received Aug. 27, 1953.

210029 to 210032. *SOLANUM ACAULE* Bitter.

210029. No. 994. Near Abra Tincuya, Tarija, Bolivia.

210030. No. 1029. Potosí, Frías, Potosí, Bolivia.

210031. No. 1341. Casaracra, Tarma, Junín, Peru.

210032. No. 1409. Near Andahuaylas, Cangallo, Ayacucho, Peru.

210033. *SOLANUM ACAULE* var. *SUBEXINTERRUPTUM* Bitter.

No. 1086. Hacienda Tincopalca, San Román, Puno, Peru.

210034. *SOLANUM ALTICOLUM* Bitter.

No. 1028. Alkatuyó, Linares, Potosí, Bolivia.

## 210029 to 210056—Continued

210035. *SOLANUM CANASENSE* Hawkes.

No. 1527. Intihuatana Ruins, Calca, Cuzco, Peru.

210036. *SOLANUM CAPSICIBACCATUM* Cárdenas.

No. 1638. Cercada, Cochabamba, Bolivia.

210037. *SOLANUM GLANDULIFERUM* Hawkes.

No. 963. Humahuaca, Jujuy, Argentina.

210038. *SOLANUM GOURLAYI* Hawkes.

No. 962. Near Iturbe, Jujuy, Humahuaca, Argentina.

210039. *SOLANUM LAPAZENSE* Hawkes.

No. 1051. Obrajes, Murillo, La Paz, Bolivia.

210040. *SOLANUM LIGNICAULE* Vargas.

No. 1531. Intihuatana Ruins, Calca, Cuzco, Peru.

210041. *SOLANUM MEGISTACROLOBUM* Bitter.

No. 973. La Caja, Yaví, Jujuy, Argentina.

210042 to 210044. *SOLANUM NEOHAWKESII* Ochoa.

210042. No. 1337. Tarma, Junín, Peru.

210043. No. 1340. Tarma, Junín, Peru.

210044. No. 1366. Huancayo, Junín, Peru.

210045. *SOLANUM NEOWEBERBAUERI* Witt.

No. 1162. Canta, Lima, Peru.

210046. *SOLANUM PAMPASENSE* Hawkes.

No. 1420. Pajonal, Cangallo, Ayacucho, Peru.

210047 to 210049. *SOLANUM RAPHANIFOLIUM* Cárdenas Hawkes.

210047. No. 1447. Andahuaylas, Apurímac, Peru.

210048. No. 1521. Saxahuamán Ruins, Cuzco, Peru.

210049. No. 1529. Intihuatana Ruins, Calca, Cuzco, Peru.

210050. *SOLANUM XEROPHYLLUM* Hawkes.

No. 965. Rinconada, Jujuy, Argentina.

210051. *SOLANUM* sp.

No. 1370. Huancayo, Junín, Peru.

210052. *SOLANUM* sp.

No. 1407. Cangallo, Ayacucho, Peru.

210053. *SOLANUM* sp.

No. 1410. Cangallo, Ayacucho, Peru.

210054. *SOLANUM* sp.

No. 1502. Abancay, Apurímac, Peru.

210055. *SOLANUM* sp.

No. 1583. Canchis, Cuzco, Peru.

210056. *SOLANUM* sp.

No. 1592. Asángaro, Puno, Peru.

**210057 and 210058. MENTHA spp. Menthaceae.**

From China. Cuttings presented by Yuen-liang Ku, National Taiwan University, Taipei, Taiwan. Received Aug. 27, 1953.

210057. *MENTHA CRISPA* L.

210058. *MENTHA ARVENSIS* L.

**210059 to 210061.**

From Canada. Budsticks presented by the Experimental Station, Department of Agriculture, Morden, Manitoba. Received Aug. 28, 1953.

210059. *PRUNUS AMYGDALUS* Batsch. Amygdalaceae.

**Almond.**

*Prairie.*

210060. *CRATAEGUS* sp. Malaceae.

*Toba.*

210061. *MALUS* sp. Malaceae.

*Almey.*

**210062 to 210065. SOLANUM TUBEROSUM L. Solanaceae. Potato.**

From Argentina. Tubers presented by the Instituto de Fitotecnica, Castelar. Received Aug. 28, 1953.

210062. D.M.P.H. 108.

210064. D.M.P.H. 110.

210063. D.M.P.H. 109.

210065. D.M.P.H. 111.

**210066 to 210069. ORYZA SATIVA L. Poaceae.**

**Rice.**

From Trinidad. Seeds presented by the Central Experimental Station, Port of Spain. Received Aug. 28, 1953.

210066. *Baja Bong.*

210068. *Red American.*

210067. *Joya 47/8.*

210069. *Sorro.*

**210070 to 210074.**

From Portugal. Budsticks and seeds collected by James W. Cameron, through the American Embassy, Lisbon. Received Aug. 31, 1953.

210070. *CITRUS* sp. Rutaceae.

No. 1. *China.* From Lisbon.

210071. *CITRUS* sp.

No. 2. From Lisbon.

210072. *CITRUS* sp.

No. 3. From Lisbon.

210073. *CITRUS* sp.

No. 1. From Lunario, Setúbal.

210074. *CITRUS* sp.

No. 2. Near Beja.

**210075 to 210084.**

From India. Seeds collected by Walter N. Koelz, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Sept. 1, 1953.

Collected in 1953; from Mawphlang, Khasi Hills, unless otherwise stated.

210075. *AVENA SATIVA* L. Poaceae.

**Oats.**

No. 11836. Shim, Kulu Valley, eastern Punjab. June.

**210075 to 210084—Continued**

**210076.** CUCUMIS sp. Cucurbitaceae.

No. 11822. Assam. June 15. Fruit smooth, salmon colored, 8 inches long; flesh salmon colored, dry, mealy.

**210077.** CUCUMIS sp.

No. 11823. Gauhati, Assam. June 15. Fruit 6 inches long; flesh salmon colored, insipid.

**210078.** FRAGARIA sp. Rosaceae.

**Strawberry.**

No. 11824. June 24. Fruit white, tinged more or less rose purple,  $\frac{1}{2}$  inch in diameter, with pleasant flavor. Plant tolerates 4 months of wet weather.

**210079.** RUBUS ALBESCENS Roxb. Rosaceae.

No. 11825. June 25. Fruit black,  $\frac{3}{8}$  inch in diameter.

**210080.** RUBUS sp.

No. 11826. June 26. Fruit orange red,  $\frac{1}{2}$  inch in diameter.

**210081.** RUBUS MOLUCCANUS L.

No. 11832. Fruit red,  $\frac{1}{2}$  inch in diameter. June 15.

**210082.** RUBUS sp.

No. 11833. July 20. Fruit black,  $\frac{1}{2}$  inch in diameter.

**210083.** SOLANUM sp. Solanaceae.

No. 11834. July 20. Bushy perennial, fruit orange red.

**210084.** VITIS sp. Vitaceae.

No. 11835. July 22. Fruits black, in good-sized bunches.

**210085.** RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

From Brazil. Seeds presented by the Instituto Agronómico, Campinas, São Paulo. Received Sept. 3, 1953.

330.

**210086 to 210089.**

From Australia. Seeds presented by J. E. Walker, Adelaide, South Australia. Received Sept. 9, 1953.

**210086.** DACTYLIS GLOMERATA var. HISPANICA (Roth) Duby. Poaceae.

Originally from Portugal.

**210087 and 210088.** TRIFOLIUM FRAGIFERUM L. Fabaceae.

**Strawberry clover.**

**210087.** O'Connors.

**210088.** Parklands.

**210089.** TRIFOLIUM RESUPINATUM L.

**Persian clover.**

**210090 to 210109.**

From Cuba. Seeds presented by M. D. Jones, Cooperative Fiber Commission, Havana. Received Sept. 9, 1953.

**210090 to 210092.** HIBISCUS DIVERSIFOLIUS Jacq. Malvaceae.

**210090.** T.M.  $\times$  *H. diversifolius*, XV 682.

**210091.** T.M.  $\times$  *H. diversifolius*, XV 692.

**210092.** T.M.  $\times$  *H. diversifolius*, XV 1127.



## 210090 to 210109—Continued

210093 to 210109. *HIBISCUS CANNABINUS* L.

Kenaf.

210093. *Sal.* XV-1. Early.210094. *Cuba F9F XV-1309.*210095. (*Sal.* × *T.M.*) × *Sal.* XV-1205.210096. (*Sal.* × *T.M.*) × *Sal.* XV-1221.210097. *Sal.* × *Tingo Maria*, × V-530.210098. *Sal.* × *Tingo Maria*, XV-219.210099. *Sal.* × *Sal.* XV-165.210100. *Cubano XV-122.*210101. *Sal.* XV-43.210102. *Sal.* XV-901.210103. *Sal.* × *Sal.* XV-953.210104. (*Sal.* × *T.M.*) × *Sal.* XV-1024.210105. (*Sal.* × *T.M.*) × *Sal.* XV-1024.210106. (*Sal.* × *T.M.*) × *Sal.* XV-1035.210107. (*Sal.* × *T.M.*) × *Sal.* XV-1059.210108. *Cuba F9F XV-1291.*210109. (*Sal.* × *T.M.*) × *Sal.* XV-588.210110 to 210123. *CHRYSOPOGON GRYPHUS* (L.) Trin. Poaceae.

From Iraq. Seeds presented by H. W. Springfield, Technical Cooperation Administration, American Embassy, Baghdad. Received Sept. 10, 1953.

210110. No. 1. Salahadiu Forestry Enclosure.

210111. No. 2. Sixteen km. northeast of Erbil.

210112. No. 3. Sixteen km. northeast of Erbil.

210113. No. 4. Two km. below Rawanduz Falls.

210114. No. 5. Salahadiu Forestry Enclosure.

210115. No. 6. Salahadiu Forestry Enclosure.

210116. No. 7. Salahadiu Forestry Enclosure.

210117. No. 8. Sixteen km. northeast of Erbil.

210118. No. 9. Sixteen km. northeast of Erbil.

210119. No. 10. Sixteen km. northeast of Erbil.

210120. No. 11. Sixteen km. northeast of Erbil. Long, narrow, leaves.

210121. No. 12. Sixteen km. northeast of Erbil. Very large, robust plant.

210122. No. 13. Salahadiu Forestry Enclosure. Large vigorous plant.

210123. No. 14. Salahadiu Forestry Enclosure. Vigorous plant.

210124 and 210125. *TRITICUM AESTIVUM* L. Poaceae.

Common wheat.

From Australia. Seeds presented by the Faculty of Agriculture, University of Sydney, Sydney, New South Wales. Received Sept. 11, 1953.

210124. W-1251.

210125. W-1451.

**210126. MANGIFERA INDICA L. Anacardiaceae. Mango.**

From Israel. Seeds presented by the Ministry of Agriculture, Department of Fruits and Grapes, Hakirya. Received Sept. 11, 1953.

*Sabre.*

**210127 to 210156.**

From the Belgian Congo. Seeds presented by INEAC, Experiment Station, Yangambi. Received Sept. 14, 1953.

From Gandajika, Kasai.

**210127. GOSSYPIUM BARBADENSE L. Malvaceae. Sea-island cotton.****210128. GOSSYPIUM BRASILIENSE Macfad.****210129. GOSSYPIUM PERUVIANUM Cav.****210130 to 210156. GOSSYPIUM.**

210130. N 802. Fiber brown.

210143. 1103-1016-773.

210131. N 576. Fiber brown.

210144. M93-1221-253.

210132. Boll small.

210145. M93-1224-237.

210133. Seed-index high.

210146. M97-1001-67-280.

210134. Seeds green.

210147. M97-1015-306-310.

210135. Lint long; floral peduncle long.

210148. 14-125-Lubarika.

210136. *Triumph Big Boll.*

210149. C1-1872-1276-355.

Seeds naked and funicle long.

210150. C1-1873-1835-483.

210137. Seeds naked, tufted.

210151. U4-S.M.

210138. Low percentage of fiber.

210152. C2-1363-648.

210139. D2-2623-868.

210153. C2-1366-578.

Plant hairy.

210154. *Ishan.*

210140. *Gar.* 105-162.

210155. *Stoneville 2/180.*

210141. *Gar.* 71.

210156. *Stoneville A.*

210142. 1103-1014-608.

**210157. PRUNUS PERSICA var. NECTARINA (Ait.) Maxim. Amygdalaceae.**

From Iran. Seeds collected by Henry C. Lint, Agricultural Attaché, American Embassy, Tehran. Received Sept. 14, 1953.

**210158. DENDROCALAMUS GIGANTEUS Munro. Poaceae. Bamboo.**

From the Canal Zone. Plants presented by W. R. Lindsay, Panama Canal Company, Summit. Received Sept. 15, 1953.

**210159. CITRUS SINENSIS (L.) Osbeck. Rutaceae. Orange.**

From French Morocco. Cuttings presented by Col. J. K. DeArmond, New York, N.Y. Received Sept. 15, 1953.

*Grosse Sanguine (Blood Orange).*

**210160. HYMENOCALLIS SONORENSIS Standley. Amaryllidaceae.**

From Mexico. Bulbs presented by an unknown donor. Received Sept. 15, 1953.

From Querobabi, Sonora.

**210161. MEDICAGO SATIVA L. Fabaceae. Alfalfa.**

From Peru. Seeds presented by A. F. Swanson, Institute of Inter-American Affairs, Lima. Received Nov. 13, 1953.

*Escota.*

**210162 to 210164. GLYCINE MAX (L.) Merrill. Fabaceae.****Soybean.**

From Burma. Seeds collected by Isom Deshotels, American Embassy, Rangoon. Received Sept. 15, 1953.

210162. No. 1.

210163. No. 2.

210164. No. 3.

**210165 to 210167.**

From Turkey. Seeds collected by Baki Kasapligil, Botany Department, University of Ankara, Ankara. Received Sept. 16, 1953.

210165. *TRAGOPOGON KRASCHENINNIKOVII* Nikitin. Cichoriaceae.

No. 1522. Near the Komurcu Barrage, Catalmese, Istanbul.

210166. *TRAGOPOGON* sp.

No. 1520. Road from Ankara to Konya.

210167. *TRAGOPOGON* sp.

No. 1521. Road from Ankara to Konya.

**210168 to 210175.**

From Australia. Seeds presented by William Hartley, Commonwealth Scientific and Industrial Research Organization, Canberra. Received Sept. 16, 1953.

210168 and 210169. *ATRIPLEX NUMMULARIA* Lindl. Chenopodiaceae.

210168. No. 1.

210169. No. 2.

210170 and 210171. *ATRIPLEX VESICARIA* Heward.

210170. No. 3.

210171. No. 4.

210172. *DANTHONIA SEMIANNULARIS* (Labill.) R. Br. Poaceae.

210173. *KOCHIA APHYLLA* R. Br. Chenopodiaceae.

210174. *RHAGODIA PARABOLICA* R. Br. Chenopodiaceae.

210175. *SWAINSONA PROCUMBENS* F. Muell. Fabaceae.

**210176 and 210177.**

From the Philippine Islands. Cuttings presented by the Department of Agriculture and Natural Resources, Manila. Received Apr. 10, 1953; numbered Sept. 17, 1953.

210176. *POGOSTEMON CABLIN* (Blanco) Benth. Menthaceae.

210177. *POGOSTEMON* sp.

**210178 to 210181.**

From Taiwan. Seeds presented by Chia Huang, Ithaca, New York. Received Sept. 18, 1953.

210178 and 210179. *GLYCINE MAX* (L.) Merrill. Fabaceae.

**Soybean.**

210178. Seedcoat black.

210179. Seedcoat yellow.

210180. *SESBANIA BISPINOSA* (Jacq.) W. F. Wight. Fabaceae.

210181. *SESBANIA SESBAN* (L.) Merr.

## 210182 to 210299. SACCHARUM. Poaceae.

## Sugarcane.

From Australia. Cuttings presented by the Bureau of Sugar Experiment Stations, Brisbane, Queensland. Received Sept. 21, 1953.

210182. Q 44.	210223. No. 55.
210183. Q 57.	210224. No. 56.
210184. No. 2.	210225. No. 58.
210185. No. 3.	210226. No. 59.
210186. No. 4.	210227. No. 61.
210187. No. 5.	210228. No. 63.
210188. No. 6.	210229. No. 64.
210189. No. 7.	210230. No. 65.
210190. No. 8.	210231. No. 66.
210191. No. 9.	210232. No. 68.
210192. No. 11.	210233. No. 70.
210193. No. 12.	210234. No. 71.
210194. No. 13.	210235. No. 73.
210195. No. 14.	210236. No. 74.
210196. No. 15.	210237. No. 78.
210197. No. 18.	210238. No. 82.
210198. No. 20.	210239. No. 86.
210199. No. 21.	210240. No. 88.
210200. No. 22.	210241. No. 89.
210201. No. 23.	210242. No. 90.
210202. No. 24.	210243. No. 91.
210203. No. 25.	210244. No. 91A.
210204. No. 26.	210245. No. 92.
210205. No. 27.	210246. No. 93.
210206. No. 28.	210247. No. 94.
210207. No. 32.	210248. No. 95.
210208. No. 36.	210249. No. 96.
210209. No. 38.	210250. No. 97.
210210. No. 39.	210251. No. 98.
210211. No. 40.	210252. No. 99.
210212. No. 41.	210253. No. 101.
210213. No. 42.	210254. No. 103.
210214. No. 43.	210255. No. 105.
210215. No. 44.	210256. No. 106.
210216. No. 45.	210257. No. 111.
210217. No. 46.	210258. No. 114.
210218. No. 47.	210259. No. 115.
210219. No. 50.	210260. No. 121.
210220. No. 51.	210261. No. 122.
210221. No. 52.	210262. No. 123.
210222. No. 53.	210263. No. 124.



## 210182 to 210299—Continued

210264. No. 125.	210282. No. 147.
210265. No. 126.	210283. No. 148.
210266. No. 127.	210284. No. 149.
210267. No. 129.	210285. No. 150.
210268. No. 130.	210286. No. 151.
210269. No. 131.	210287. No. 152.
210270. No. 133.	210288. No. 153.
210271. No. 134.	210289. No. 154.
210272. No. 135.	210290. No. 155.
210273. No. 137.	210291. No. 156.
210274. No. 138.	210292. No. 157.
210275. No. 139.	210293. No. 159.
210276. No. 140.	210294. No. 160.
210277. No. 142.	210295. No. 161.
210278. No. 143.	210296. No. 162.
210279. No. 144.	210297. No. 163.
210280. No. 145.	210298. No. 164.
210281. No. 146.	210299. No. 165.

## 210300 and 210301.

From Peru. Seeds collected by Juan Lanatta, SCIPA, Lima. Received Sept. 23, 1953.

210300. LUPINUS sp. Fabaceae.

*Muestra No. 1.* Road to La Granja "Porcon."

210301. LUPINUS sp.

*Muestra No. 2.* From the Fundo "El Monton."

## 210302 to 210312.

From Colombia. Seeds collected by G. A. Wiebe, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Sept. 23, 1953.

Selections made in Bogotá by the Rockefeller Foundation.

210302. HORDEUM sp. Poaceae.

**Barley.**

*Estanzuela.*

210303. HORDEUM sp.

*Pocha.*

210304. HORDEUM sp.

*Pocha Precoz 20.*

210305. HORDEUM sp.

*Raspa.*

210306. HORDEUM sp.

*Raspa Común 1085.*

210307. HORDEUM sp.

*Raspa Precoz 604.*

**210302 to 210312—Continued**

210308. *HORDEUM* sp.

*Research 821.*

210309. *HORDEUM* sp.

*FR 1180.*

210310. *HORDEUM* sp.

*FR 1252.*

210311. *HORDEUM* sp.

*FR 1391.*

210312. *HORDEUM* sp.

*FR 1894.*

**210313 to 210315. TRITICUM AESTIVUM L. Poaceae.**

**Common wheat.**

From Peru. Seeds collected by A. F. Swanson, Foreign Agricultural Service, United States Department of Agriculture, Washington, D. C. Received Sept. 23, 1953.

From the La Molina Agricultural Experiment Station, La Molina.

210313. (52-80 *Maria Escobar* × *H 44*) × *Marquis*.

210314. (52-81 *Maria Escobar* × *H 44*) × *Marquis*.

210315. *Mariache* No. 50.

**210316. MANGIFERA INDICA L. Anacardiaceae.**

**Mango.**

From Israel. Seeds presented by the Ministry of Agriculture, Hakirya, near Tel Aviv. Received Sept. 24, 1953.

*Peach.*

**210317. VIGNA NILOTICA (Delile) Hook. f. Fabaceae.**

From Israel. Seeds presented by the Agricultural Research Station, Rehovot. Received Sept. 24, 1953.

**210318 to 210320. ARACHIS HYPOGAEA L. Fabaceae. Peanut.**

From the Belgian Congo. Seeds presented by the INEAC, Kiyaka Experiment Station, Kiyaka. Sept. 25, 1953.

210318. *Mukongo Locale*.

210319. *Nguba Va Ma Soeur*.

210320. *Tuzela* or *Muboma* variety *Latue*.

**210321 to 210323.**

From Portugal. Seeds presented by H. Chambers, Prade, Braga. Received Sept. 25, 1953.

**210321 and 210322. LOTUS ULIGINOSUS Schkuhr. Fabaceae. Big trefoil.**

210321. Leaves hairy.

210322. Leaves smooth.

210323. *LOTUS* sp.

Flowers lemon.

**210324 to 210330. CYMBOPOGON SCHOENANTHUS Spreng.**

Poaceae.

From Iraq. Seeds presented by H. W. Springfield, American Embassy, Baghdad. Received Sept. 25, 1953.

**210324 to 210327.** From 8 miles north of Kirkuk.

**210324.** No. 1.

**210326.** No. 3.

**210325.** No. 2.

**210327.** No. 4.

**210328 and 210329.** From Salahadiu Forestry Enclosure. Enclosure near Erbil.

**210328.** No. 5.

**210329.** No. 6.

**210330.** No. 7. Sixteen km. northeast of Erbil.

**210331. CANNABIS SATIVA L. Moraceae.**

Hemp.

From Spain. Seeds presented by the Institute of Textile Fibers, Seville. Received Sept. 29, 1953.

**210332 to 210335. PYRUS COMMUNIS L. Malaceae. Common pear.**

From South Australia. Budsticks presented by the Department of Agriculture, Adelaide. Received Sept. 30, 1953.

**210332.** *Fondante De Noel.*

**210334.** *Gratioli of Jersey.*

**210333.** *Fondante De Thirriot.*

**210335.** *Helene Gregoire.*

**210336. ANDROPOGON sp. Poaceae.**

From India. Seeds presented by the Grass Research Officer, Madras. Received Oct. 1, 1953.

**210337 and 210338. AGROPYRON spp. Poaceae.**

From Canada. Seeds presented by the Department of Agriculture, Saskatoon, Saskatchewan. Received Oct. 1, 1953.

**210337.** AGROPYRON CRISTATUM (L.) Gaertn.

Crested wheatgrass.

*S-131.* Standard type. Introduced from a West Siberian experimental station, Omak, in 1929.

**210338.** AGROPYRON PECTINIFORME Roem. & Schult.

*S-2284.* Obtained through the Botany Division, Dominion Department of Agriculture, originally from the Botanic Garden of the Moscow Academy of Sciences in 1948. This strain makes very rapid establishment and may be cut for hay the year of seeding.

**210339 and 210340.**

From New Jersey. Plants and cuttings presented by Julius Roehrs, Rutherford. Received Oct. 8, 1953.

**210339.** BAMBUSA sp. Poaceae.

Bamboo.

*Dwarf Bamboo Roller.*

**210340.** SASA sp. Poaceae.

Bamboo.

*Hardy Bamboo Roller.*

**210341. CITRUS sp. Rutaceae.**

From Portugal. Budsticks presented by J. Mira Galvão, Beja. Received Oct. 8, 1953.

From the daughter of D. João.

**210342. LATHYRUS CICERA L. Fabaceae.**

From Iran. Seeds presented by the Agricultural Division, United States Operations Mission to Iran, Tehran. Received Oct. 14, 1953.

**210343. ANDROPOGON sp. Poaceae.**

From Iraq. Seeds presented by H. W. Springfield, Abu Ghraib Experiment Station, Baghdad. Received Oct. 14, 1953.

Reported to withstand close grazing and extended periods of drought.

**210344 to 210347.**

From Turkey. Collected by Baki Kasapligil, University of Ankara, Ankara. Received Oct. 2, 1953.

**210344. GLADIOLUS SEGETUM Ker. Iridaceae.**

No. 1526. (Bulbs.)

**210345. IRIS sp. Iridaceae.**

No. 1527. (Rhizomes.)

**210346. IRIS sp.**

(No number.) (Rhizomes.)

**210347. MUSCARI sp. Liliaceae.**

No. 1525. (Bulbs.)

**210348 to 210353. GLYCINE MAX (L.) Merrill. Fabaceae.**  
**Soybean.**

From Mozambique. Seeds presented by Repartição Tecnica de Agricultura, Lourenço Marques. Received Oct. 6, 1953.

210348. *Dr. Sander's Soja*.

210351. *Jubiltan 77*.

210349. *Jubiltan 65*.

210352. *Mammoth Yellow*.

210350. *Jubiltan 67*.

210353. *Potchefstroom 184*.

**210354. TRIFOLIUM NIGRESCENS Viv. Fabaceae.**

From Italy. Seeds presented by Sergio Orsi, University of Florence, Florence. Received Oct. 7, 1953.

**210355 to 210361. ZANTEDESCHIA spp. Araceae.**

From the Union of South Africa. Rhizomes presented by the Division of Botany, Department of Agriculture, Pretoria, Transvaal. Received Oct. 12, 1953.

**210355. ZANTEDESCHIA AETHIOPICA (L.) Spreng.**

**Common calla.**

*Letty 10462*.

**210356. ZANTEDESCHIA ALBO-MACULATA (Hook.) Baill.**

*Codd 6259*.

**210357. ZANTEDESCHIA MACROCARPA Engl.**

*Vander Merwe S.U.*

**210358 and 210359. ZANTEDESCHIA REHMANII Engl.**

210358. *Codd 6257*.

210359. *Codd 6268*.

**210360. ZANTEDESCHIA sp.**

*Codd 4771*.

**210361. ZANTEDESCHIA sp.**

*Codd 6214*.



**210362. CRINUM sp. Amaryllidaceae.**

From India. Bulbs collected by W. H. Koelz, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Oct. 13, 1953.

No. 11850. Mawphlang, Khasi Hills. Flowers white with purplish stamens. Oct. 1, 1953.

**210363 to 210386.**

From Iran. Seeds presented by Maurice E. Heath, Technical Cooperation Administration, American Embassy, Tehran. Received Oct. 13, 1953.

**210363. BRACHIARIA ERUCAEFORMIS (J. E. Sm.) Griseb. Poaceae.**

**210364. BROMUS sp. Poaceae.**

**210365. CORONILLA VARIA L. Fabaceae.**

**Crownvetch.**

Bongah Garden, Hamadan.

**210366. HORDEUM sp. Poaceae.**

**Barley.**

Near Malayer.

**210367. MEDICAGO SATIVA L. Fabaceae.**

**Alfalfa.**

Kermanshah.

**210368. MELILOTUS OFFICINALIS (L.) Lam. Fabaceae. Yellow sweetclover.**

Kermanshah.

**210369. POA BULBOSA L. Poaceae.**

Koorijan.

**210370. TRIFOLIUM PRATENSE L. Fabaceae.**

**Red clover.**

Bongah Garden, Hamadan.

**210371 to 210386. TRITICUM AESTIVUM L. Poaceae.**

**Common wheat.**

**210371 to 210374. Near Malayer.**

**210371. Red winter wheat.**

**210373. Shahpasand wheat.**

**210372. Seyed Zia wheat.**

**210374. White wheat.**

**210375 to 210386. Winter wheat.**

**210375 to 210382. From Vakilagha. 210385. Hamadan.**

**210383. Gilan-F-Gharb.**

**210386. (No note.)**

**210384. Kermanshah.**

**210387 to 210397. ORYZA SATIVA L. Poaceae.**

**Rice.**

From Korea. Seeds presented by Chang Yong Chul, Central Agricultural Experiment Station, Suwon. Received Oct. 14, 1953.

**210387. Iljin.**

**210393. Seoun Seou.**

**210388. Jokwang.**

**210394. Suwon No. 146.**

**210389. Palkwing.**

**210395. Suwon No. 147.**

**210390. Paltal.**

**210396. Suwon No. 148.**

**210391. Pungok.**

**210397. Yownkang.**

**210392. Seoukwang.**

**210398 to 210413. ZEA MAYS L. Poaceae.**

**Corn.**

From the Union of South Africa. Seeds presented by Agricultural College, Potchefstroom, Transvaal. Received Oct. 14, 1953.

**210398. American White Flint.**

**210399. Early King.**

**210398 to 210413—Continued**

210400. *Hickory King.* (*Bechino.*)  
 210401. *Ladysmith White Pearl.*  
 210402. *Robyn.*  
 210403. *Sahara.* (*Basson.*)  
 210404. *Synthetic Potchefstroom Pearl.*  
 210405. *Teko Yellow.*  
 210406. (*A 13* × *Potch. 53*) × *5A 2.*  
 210407. (*A 14* × *Potch. 53*) × *5A 4.*  
 210408. (*A 15* × *Potch. 53*) × *5A 10.*  
 210409. (*A 16* × *Potch. 53*) × *5A 15.*  
 210410. (*A 17* × *Potch. 53*) × *5A 17.*  
 210411. (*A 22* × *Potch. 53*) × *5A 41-44.*  
 210412. (*A 71* × *Potch. 53*) × *7C 1660.*  
 210413. (*E 184* × *Potch. 53*) × *5A 110.*

**210414 to 210423. SACCHARUM. Poaceae.****Sugarcane.**

From the British West Indies. Cuttings presented by the British West Indies Central Sugarcane Breeding Station, Barbados. Received Oct. 14, 1953.

- |                          |                          |
|--------------------------|--------------------------|
| 210414. <i>B. 603.</i>   | 210419. <i>B. 40175.</i> |
| 210415. <i>B. 4145.</i>  | 210420. <i>B. 41203.</i> |
| 210416. <i>B. 4373.</i>  | 210421. <i>B. 42304.</i> |
| 210417. <i>B. 35206.</i> | 210422. <i>B. 43283.</i> |
| 210418. <i>B. 40123.</i> | 210423. <i>B. 47179.</i> |

**210424 to 210431.**

From Greece. Seeds collected by B. E. Grant, United States Foreign Operations Mission to Greece, Athens. Received Oct. 14, 1953.

- |   |                  |
|---|------------------|
| 210424. <i>HORDEUM BULBOSUM</i> L. Poaceae.             | Grass.           |
| 210425. <i>MEDICAGO ORBICULARIS</i> (L.) All. Fabaceae. | Buttonclover.    |
| 210426. <i>PHLEUM PRATENSE</i> L. Poaceae.              | Timothy.         |
| 210427. <i>PHLEUM SUBULATUM</i> Asch. & Graebn.         |                  |
| 210428. <i>POA TRIVIALIS</i> L. Poaceae.                | Rough bluegrass. |
| 210429. <i>TRIFOLIUM CAMPESTRE</i> Schreb. Fabaceae.    |                  |
| 210430. <i>TRIFOLIUM PRATENSE</i> L.                    | Red clover.      |
| 210431. <i>VICIA</i> sp. Fabaceae.                      |                  |

**210432 to 210438. SACCHARUM. Poaceae.****Sugarcane.**

From Hawaii. Cuttings presented by the Hawaiian Sugar Planters' Association, Honolulu. Received Oct. 15, 1953.

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|---------------------------|---------------------------|
| 210432. <i>H 38 2915.</i> | 210436. <i>H 44 3098.</i> |
| 210433. <i>H 38 4443.</i> | 210437. <i>H 51 9001.</i> |
| 210434. <i>H 39 3633.</i> | 210438. <i>H 51 9002.</i> |
| 210435. <i>H 39 7028.</i> |                           |

**210439 and 210440.**

From Iraq. Seeds presented by H. W. Springfield, United States Operations Mission, Tehran. Received Oct. 16, 1953.

From Haji Omran.

210439. LOTUS GEBELLA Vent. Fabaceae.

210440. MEDICAGO SATIVA L. Fabaceae.

Alfalfa.

**210441 and 210442. SACCHARUM. Poaceae.**

Sugarcane.

From Puerto Rico. Cuttings presented by the Estación Experimental Agrícola, Río Piedras. Received Oct. 19, 1953.

210441. *P.R. 907.*

210442. *P.R. 1000.*

**210443 to 210448. SACCHARUM. Poaceae.**

Sugarcane.

From Hawaii. Cuttings presented by the Hawaiian Sugar Planters' Association, Honolulu. Received Oct. 19, 1953.

210443. *H38-2915.*

210446. *H39-5803.*

210444. *H38-4443.*

210447. *H39-7028.*

210445. *H39-3633.*

210448. *H44-3098.*

**210449 to 210452. SOLANUM. Solanaceae.**

From Argentina. Seeds presented by Dr. Enrique H. Brucher, Fundación Miguel Lillo, Tucumán. Received Oct. 20, 1953.

210449. *84 (Hybrid) × Solanum simplicifolium.*

210450. *85 (Hybrid) × Nr. 2.*

210451. *88 (Hybrid) × Solanum subtilius.*

210452. *89 (Hybrid) × Solanum subtilius.*

**210453 to 210459. PHASEOLUS VULGARIS L. Fabaceae.**

Common bean.

From Mexico. Seeds presented by the Rockefeller Foundation, Mexico, D.F. Received Oct. 20, 1953.

210453. *Ludco No. 3.*

210457. *Qro. 19.*

210454. *Lurco No. 14.*

210458. *Roc. 1.*

210455. *Lurco No. 91.*

210459. *Roc. 2.*

210456. *Lurco No. 233.*

**210460. CARTHAMUS TINCTORIUS L. Asteraceae.**

Safflower.

From Turkey. Seeds collected by Dr. Vamik Taysi, University of Ankara, Ankara. Received Oct. 21, 1953.

**210461 to 210537.**

From Iran. Seeds collected by H. Kuckuck, Barnameh, Tehran. Received Oct. 23, 1953.

210461 to 210483. DACTYLIS GLOMERATA L. Poaceae.

Orchard grass.

210461. *No. 84d.* One hundred forty-five km. from Isfahan.

210462. *No. 94c.* Forty-three km. from Arak.

210463. *No. 96i.* Eighty km. from Karaj.

210464. *No. 203a.* Twenty-nine km. from Zanjan on road to Miani.

210465. *No. 208a.* One hundred and ten km. south of Tabriz.

210466. *No. 213d.* Thirty-eight km. south of Tabriz.

## 210461 to 210537—Continued

## 210461 to 210483—Continued

210467. No. 226f. Between Marand and Koy.

210468. No. 233 6/2.

210469. No. 235 c/2.

210470. No. 235 el. Thirty km. south of Maku.

210471. No. 245a. Retayeh.

210472. No. 259f. Between Tabriz and Miani.

210473. No. 271. Elburz Mountains, near Chalus-Pan.

210474. No. 273 c/1. Elburz Mountains, foot of Chalus-Pan.

210475. No. 273 c/2.

210476. No. 2744d. Elburz Mountains, near Chalus-Pan.

210477. No. 278. Elburz Mountains, between Chalus-Pan and Karaj.

210478. No. 1760. Near Shemiran.

210479. No. 2166/1. Tabriz.

210480. No. 2166/2.

210481. No. 2166/3.

210482. No. 2336/1. Ten km. north of Maku, toward the Turkish frontier.

210483. No. 2726. Elburz Mountains, near Chalus-Pan.

## 210484 to 210486. TRITICUM AESTIVUM L. Poaceae.

Common wheat.

Twenty-one km. from Tehran, toward Karaj.

210484. No. 3882.

210485. No. 3883.

210486. No. 3886.

## 210487 to 210537. SECALE CEREALE L. Poaceae.

Rye.

210487 to 210492. Twenty-one km. from Tehran, toward Karaj.

210487. 3884.

210490. 3888.

210488. 3885.

210491. 3889.

210489. 3887.

210492. 3890.

210493 to 210502. Sixty-four km. from Isfahan, toward Arak.

210493. 75d 30.

210498. 75d 35.

210494. 75d 31.

210499. 75d 36.

210495. 75d 32.

210500. 75d 37.

210496. 75d 33.

210501. 75d 38.

210497. 75d 34.

210502. 75d 39.

210503 to 210512. One hundred and thirty-six km. from Isfahan, toward Arak.

210503. 83b 50.

210508. 83b 55.

210504. 83b 51.

210509. 83b 56.

210505. 83b 52.

210510. 83b 57.

210506. 83b 53.

210511. 83b 58.

210507. 83b 54.

210512. 83b 59.



## 210461 to 210537—Continued

## 210487 to 210537—Continued

210513 to 210517. Nine km. from Harsin, toward Kermanshah.

210513. 129b 67.

210516. 129b 70.

210514. 129b 68.

210517. 129b 71.

210515. 129b 69.

210518 to 210527. Fifty-two km. from Malayer, toward Hamadan.

210518. 153b 87.

210523. 153b 92.

210519. 153b 88.

210524. 153b 93.

210520. 153b 89.

210525. 153b 94.

210521. 153b 90.

210526. 153b 95.

210522. 153b 91.

210527. 153b 96.

210528 to 210537. Azerbaijan.

210528. 161d 124.

210533. 161d 129.

210529. 161d 125.

210534. 161d 130.

210530. 161d 126.

210535. 161d 131.

210531. 161d 127.

210536. 161d 132.

210532. 161d 128.

210537. 161d 133.

## 210538 to 210551.

From India. Seeds collected by W. H. Koelz, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Oct. 26, 1953.

Seeds collected at Mawphlang, Khasi Hills. August and September 1953.

210538. AGROSTIS sp. Poaceae.

No. 11838. Used for brooms.

210539. CORYDALIS sp. Papaveraceae.

No. 11841-A.

210540. COTONEASTER sp. Malaceae.

No. 11849. Bush about 4 feet high; fruits red.

210541 and 210542. CUCUMIS MELO L. Cucurbitaceae.

Muskmelon.

210541. No. 11837. Fruit globose, 8 inches in diameter, lemon yellow, smooth, fragrant; flesh salmon, of fair quality.

210542. No. 11843. Fruit 8 by 5 inches, lemon yellow, smooth; flesh salmon.

210543. HYPARRHENIA sp. Poaceae.

No. 11847. Clumps up to 8 feet high.

210544. IMPATIENS sp. Balsaminaceae.

No. 11841. Flowers white to deep rose purple.

210545. IMPATIENS sp.

No. 11844. Annual; 1½ feet high; flowers jewellike, purple.

210546. IMPERATA sp. Poaceae.

No. 11842. About 2 feet high.

210547. RUBUS sp. Rosaceae.

No. 11840. Fruit one-half inch in diameter, red; flavor pleasant.

**210538 to 210551—Continued**210548. *RUBUS* sp.

No. 11846. Fruit three-fourth inch in diameter, red; flavor pleasant.

210549. *RUBUS* sp.

No. 11848. Fruit, one-half inch in diameter, red.

210550. *VITIS* sp. Vitaceae.**Grape.**

No. 11839. Fruit in well-filled bunches, one-half inch in diameter, black.

210551. *ZEA MAYS* L. Poaceae.

No. 11845.

210552. *FESTUCA GIGANTEA* (L.) Vill. Poaceae.From Denmark. Seeds presented by the Statens Forsogsstation, Hornum.  
Received Nov. 16, 1953.210553 to 210555. *ARACHIS* spp. Fabaceae.From Argentina. Seeds presented by Victor A. Rigoni, Manfredi. Received  
Nov. 16, 1953.210553. *ARACHIS PUSILLA* Benth.210554 and 210555. *ARACHIS VILLOSA* Benth.Received as var. *correntina*, not considered distinct from the species.210556. *RUBUS* sp. Rosaceae.From England. Plants presented by National Fruit Trials, Wisley, Ripley,  
Surrey. Received Oct. 27, 1953.*Lloyd George.*210557. *TEPHROSIA VOGELLI* Hook. f. Fabaceae.From the Belgian Congo. Seeds presented by the Institut Nation Pour  
L'Etude Agronomique, Station de Rubona, Ruanda. Received Oct. 28,  
1953.210558 to 210685. *PISUM SATIVUM* L. Fabaceae.**Pea.**From Iowa. Seeds held at the United States Introduction Station, Ames.  
Numbered Nov. 2, 1953.

A collection of pea varieties from the University of Wisconsin.

210558 to 210562. Originally maintained by Daniel N. Shoemaker.

210558. No. S-653. Peking, China. 210561. No. S-688. Russia.

210559. No. S-685. Russia.

210562. No. S-968. *Alaska Field.*

210560. No. S-687. Russia.

210563 to 210590. A University of Wisconsin commercial collection.

210563. No. A-42. *Alaska Selection.*210564. No. A-45. *Large Seeded Marcross.*210565. No. A-46. *Marcross.*210566. No. A-44. *Market Surprise.*210567. No. A-52. *Paula.*210568. No. A-53. *Kelina.* Finland.210569. No. A-54. *Sivikka.* Finland.210570. No. A-55. *Kaiviato.* Finland.210571. No. A-56. *Flo.* Finland.210572. No. A-57. *Prince of Wales.*

## 210558 to 210685—Continued

## 210563 to 210590—Continued

210573. No. A-58. *Wisconsin Perfection.*  
 210574. No. A-60. *Prince of Wales.*  
 210575. No. A-61. *Davis Perfection.*  
 210576. No. A-65. *Hovai.*  
 210577. No. A-66. *Teton. (Association.)*  
 210578. No. A-67. *Alderman.*  
 210579. No. A-69. *Glacier.*  
 210580. No. A-73. *Alsweet.*  
 210581. No. A-74. *Loyalty.*  
 210582. No. A-75. *Thomas Laxton.*  
 210583. No. A-77. *Rogers Ace.*  
 210584. No. A-78. *Rogers Climax.*  
 210585. No. A-79. *Willets Wonder Selection (Wade.)*  
 210586. No. A-81. *Wade.*  
 210587. No. A-83. *King Tut.*  
 210588. No. A-101. *Dashaway. Canada.*  
 210589. No. A-102. *Old Scotch.*  
 210590. No. A-103. *Multiplier.*

## 210591 to 210685. A collection of foreign and domestic varieties.

- |   |  |
|---|--|
| 210591. <i>Abundance.</i>                               | 210612. <i>Double Alaska. No. 811.</i>                       |
| 210592. <i>Alcross.</i>                                 | 210613. <i>Dwarf Alderman.</i>                               |
| 210593. <i>Alderman Improved B.</i>                     | 210614. <i>Dwarf Market.</i>                                 |
| 210594. <i>A1 2B.</i>                                   | 210615. <i>Dwarf Profusion.</i>                              |
| 210595. <i>A1 302.</i>                                  | 210616. <i>Dwarf Telephone.</i>                              |
| 210596. <i>A1 HF30.</i>                                 | 210617. <i>Early Dwarf.</i>                                  |
| 210597. <i>Ameir. No. 827.</i>                          | 210618. <i>Early Green May.</i><br><i>No. 921.</i>           |
| 210598. <i>Asg 40.</i>                                  | 210619. <i>Early Green Seeded</i><br><i>Marrow. No. 841.</i> |
| 210599. <i>Bayou.</i>                                   | 210620. <i>Early Harvest.</i>                                |
| 210600. <i>Black Eyed Susan.</i><br><i>No. 951.</i>     | 210621. <i>Early Perfection No. 1.</i>                       |
| 210601. <i>Blue Bantam.</i>                             | 210622. <i>Early Perfection No. 2.</i>                       |
| 210602. <i>Blue Prussian. No. 895.</i>                  | 210623. <i>Early Perfection No. 3.</i>                       |
| 210603. <i>Bountiful.</i>                               | 210624. <i>Early Perfection</i><br><i>No. 312.</i>           |
| 210604. <i>Canada Field. No. 889.</i>                   | 210625. <i>Early Perfection</i><br><i>No. 321.</i>           |
| 210605. <i>Canton China. No. 840.</i>                   | 210626. <i>Early Perfection</i><br><i>No. 412.</i>           |
| 210606. <i>Cart 8WK.</i>                                | 210627. <i>Early Perfection</i><br><i>No. 2652.</i>          |
| 210607. <i>Clibrans Masterpiece.</i><br><i>No. 809.</i> | 210628. <i>Early Perfection</i><br><i>No. 4824.</i>          |
| 210608. <i>Cody.</i>                                    | 210629. <i>Early Perfection</i><br><i>No. 4825.</i>          |
| 210609. <i>Creole (2).</i>                              |  |
| 210610. <i>Dark Seed Perfection.</i>                    |  |
| 210611. <i>Delicata Earliest.</i><br><i>No. 839.</i>    |  |

## 210558 to 210685—Continued

## 210591 to 210685—Continued

- |   |  |
|---|--|
| 210630. <i>Early Profusion.</i>   | 210658. <i>Laxton's Superb.</i>  |
| 210631. <i>Early Wales.</i>   | 210659. <i>Little Marvel.</i>  |
| 210632. <i>Echo, Manchuria No. 190.</i><br>No. 912.                                 | 210660. <i>Major.</i>  |
| 210633. <i>Everbearing.</i>   | 210661. <i>MPEE.</i> (Mammoth<br>podded, extra early.)                         |
| 210634. <i>Famous.</i>  | 210662. <i>Mangetout; Sans</i><br><i>Parchemin. Buerraa Raneo.</i><br>No. 847. |
| 210635. <i>First and Best No. 2.</i>  | 210663. <i>Mansholt.</i> No. 919.  |
| 210636. <i>Giant Pod Hamper.</i>  | 210664. <i>Md. A1.</i>   |
| 210637. <i>Giant Stride.</i>  | 210665. <i>Minnesota Early Sweet.</i>  |
| 210638. <i>Gilbo.</i>   | 210666. <i>Miracle.</i>  |
| 210639. <i>Gradus No. 2.</i>  | 210667. <i>Morse's Market No. 2.</i>   |
| 210640. <i>Green Admiral.</i>   | 210668. <i>Borodin A.</i> No. 926.<br>Moscow, USSR.                            |
| 210641. <i>Green Seeded Profusion.</i>  | 210669. <i>Borodin.</i> No. 925.<br>Moscow, USSR.                              |
| 210642. <i>Honan, China.</i> No. 913.   | 210670. <i>Multifold.</i>  |
| 210643. <i>Horsford.</i>  | 210671. <i>Navajo.</i>   |
| 210644. <i>Hundredfold.</i>   | 210672. <i>Nanking.</i>  |
| 210645. <i>Icer No. 95.</i>   | 210673. <i>Nott's Excelsior.</i>   |
| 210646. <i>Idabelle.</i>  | 210674. <i>Oneida.</i>   |
| 210647. <i>Improved Gradus.</i>   | 210675. <i>Onward.</i>   |
| 210648. <i>Improved Pride.</i>  | 210676. <i>Pedigree Extra Early.</i>   |
| 210649. <i>Improved Strategem.</i>  | 210677. <i>Perfection Rogers.</i>  |
| 210650. <i>Improved Sugar Marrow-</i><br><i>fat.</i> No. 829.                       | 210678. <i>Perfection No. 512.</i>   |
| 210651. <i>Irkutsk Govt. Pissarev's.</i><br>No. 922.                                | 210679. <i>Perfection No. 852.</i>   |
| 210652. <i>Irkutsk Field.</i> No. 920.  | 210680. <i>Perfection No. 9551.</i>  |
| 210653. <i>Irkutsk Government</i><br><i>Pissarev's Tulunsky Hybrid.</i><br>No. 928. | 210681. <i>Perfection Washburn.</i>  |
| 210654. <i>Large Seed Early.</i>  | 210682. <i>Premier.</i>  |
| 210655. <i>Late A1.</i>   | 210683. <i>Premium Germ No. 2.</i>   |
| 210656. <i>Laxtonian.</i>   | 210684. <i>President Wilson.</i>   |
| 210657. <i>Lax Progress No. 2.</i>  | 210685. <i>Prince Edward.</i> No. 816.   |

## 210686. SCILIA NONSCRIPTA Hoff. &amp; Link. Liliaceae.

From Scotland. Bulbs presented by the Department of Botany, Royal Botanic Garden, Edinburgh. Received Nov. 3, 1953.

## 210687 and 210688. SESAMUM INDICUM L. Pedaliaceae. Sesame.

From Italian Somaliland. Seeds presented by the Amministrazione Fiduciaria Italiana Della Somalia, Mogadiscio.

210687. No. 1. From Caitoi, Lower Webi Shebeli.

210688. No. 2. From Gelib, Lower Juba.



**210689. GOSSYPIMUM. Malvaceae. Cotton.**

From Costa Rica. Seeds collected by J. T. Presley, Division of Cotton and Other Fiber Crops and Diseases, Beltsville, Md. Received Nov. 5, 1953.

One mile from Sara Camp, Batan. Oct. 16, 1953. Plant 15 to 18 feet high. Bolls about 3 inches long.

**210690 to 210695.**

From Southern Rhodesia. Seeds presented by the Grasslands Research Station, Marandellas. Received Nov. 9, 1953.

**210690 and 210691. CHLORIS GAYANA Kunth. Poaceae. Rhodes grass.**

**210690.** *Katambora*, strain O.W. 3219.

**210691.** *Zongala*, strain O.W. 3217.

**210692. PANICUM MAKARIKARIENSE (Goos.) Van Rensb. Poaceae.**

*Bambatsi* strain O.W. 3172.

**210693 to 210695. PENNISETUM CILIARE (L.) Link. Poaceae.**

**210693.** *Chipinga* strain.

**210694.** *Manzimnyama* strain.

**210695.** *Sebungwe* strain.

**210696. DESMODIUM NICARAGUENSE Benth. & Oerst. Fabaceae.**

From El Salvador. Seeds presented by the Soil Conservation Section, United States Department of Agriculture, Santa Tecla. Nov. 9, 1953.

**210697 and 210698.**

From Peru and Honduras. Plants growing at the United States Plant Introduction Garden, Glenn Dale, Md. Numbered Nov. 9, 1953.

**210697. XANTHOSOMA sp. Araceae.**

From Felipe García Velasquez, Tarepoto, Peru.

**210698. XANTHOSOMA sp.**

From O. W. Norvell, Santa Marta, Honduras. Corms collected in 1951.

**210699 to 210706.**

From England. Plants and cuttings presented by the Royal Horticultural Society Gardens, Wisley, Ripley, Surrey. Received Nov. 9, 1953.

**210699 and 210700. FRAGARIA. Rosaceae. Strawberry.**

**210699.** *Black Prince*.

**210700.** *Sir Joseph Paxton*.

**210701 to 210706. RIBES UVA-CRISPA L. Saxifragaceae. Gooseberry.**

**210701.** *Careless; Bunyard*. Fruit very large, roundish oval, pale milky green or white; skin transparent; flavor very good. One of the earliest large fruits to ripen and therefore valued for market culture.

**210702.** *Lancashire Lad*. Fruit large, oblong-oval, dark claret red; skin hairy with thin scattered down; flavor fair only during midseason. Very fertile. One of the most popular market gooseberries; resistant to American mildew.

**210703.** *Lancer*. Fruit medium in size, roundish oval, pale green with slight yellow tinge; skin thin, transparent, markedly downy; flavor excellent. Season rather late; extremely fertile. The best all-round pale-green variety.

**210704.** *Leveller*. Fruit large, oblong, green; flavor very good. Mid-season; extraordinarily prolific. A very valuable fruit which combines excellent quality with great fertility.

**210699 to 210706—Continued****210701 to 210706—Continued**

**210705.** *May Duke*. Fruit medium to fairly large, roundish oblong, dark crimson; skin slightly downy; flavor fair, good when cooked. Season early.

**210706.** *Whitesmith*. Fruit fairly large, oval, pale green with a yellow tinge; skin covered with a short dense down; flavor very good. Mid-season; extraordinarily fertile. One of the best all-round gooseberries, combining vigor, crop, and good flavor.

**210707 to 210721.**

From Chile. Collected by Earl E. Smith, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Nov. 9, 1953.

Collected Oct. 25 to 29, 1953; unless otherwise stated, received as tubers.

**210707.** *ALGYLIA* sp. Bignoniaceae.

Fifty km. south of La Serena, Coquimbo. Plant small; flowers dark velvet-red.

**210708 to 210716.** From the National Botanical Garden, Valparaiso.**210708.** *DIOSCOREA* sp. Dioscoreaceae.

No. 3.

**210709.** *DIOSCOREA* sp.

No. 4.

**210710.** *DIOSCOREA* sp.

No. 5.

**210711.** *DIOSCOREA* sp.

No. 6.

**210712.** *DIOSCOREA* sp.

No. 8.

**210713.** *DIOSCOREA* sp.

No. 9.

**210714.** *DIOSCOREA* sp.

No. 10.

**210715.** *DIOSCOREA ARISTOLOCHIIIFOLIA* Poepp.

No. 12.

**210716.** *DIOSCOREA* sp.

No. 13.

**210717.** *DIOSCOREA* sp.

No. 14. Ninety km. south of Ovalle, Coquimbo.

**210718.** *DIOSCOREA* sp.

No. 15. Eighty km. south of Ovalle, Coquimbo.

**210719.** *DIOSCOREA* sp.

No. 17. Cerrillo de Tamaya, Ovalle, Coquimbo.

**210720.** (Undetermined.)

No. 16. Eighty km. south of Ovalle, Coquimbo. (Bulbs.)

**210721.** (Undetermined.)

No. 17. Cerrillo de Tamaya, Ovalle, Coquimbo.

**210722. TRIFOLIUM RESUPINATUM L. Fabaceae. Persian clover.**

From Georgia. Seeds planted at the Regional Plant Introduction Station, Experiment. Numbered Nov. 16, 1953.

Selection 12256, from the National Agronomy Station at Sacavém, Portugal.

**210723. CAPSICUM FRUTESCENS L. Solanaceae. Redpepper.**

From Spain. Seeds presented by the Agricultural Attaché, American Embassy, Madrid. Received Nov. 16, 1953.

**210724. BRACHIARIA DECUMBENS Stapf. Poaceae.**

From Venezuela. Seeds presented by Bruno Mazzani, Ministry of Agriculture, Maracay. Received Nov. 16, 1953.

**210725 to 210738.**

From Greece. Seeds presented by A. E. Patounas, MSA/FA, Athens. Received Nov. 17, 1953.

210725. ASTRAGALUS sp. Fabaceae.

210726. CYTISUS HIRSUTUS L. Fabaceae.

210727. DORYCNIUM sp. Fabaceae.

210728. DORYCNIUM sp.

210729. LOTUS sp. Fabaceae.

210730. MEDICAGO ARBOREA L. Fabaceae.

**Tree alfalfa.**

210731 and 210732. MEDICAGO CILIARIS (L.) All.

210731. No. 1.

210732. No. 2.

210733. MEDICAGO FALCATA L.

**Yellow-flowered alfalfa.**

210734. MEDICAGO RUGOSA Desf.

210735. TRIFOLIUM XEROCEPHALUM Fenzl. Fabaceae.

210736 and 210737. VICIA NARBONENSIS L. Fabaceae.

210738. (Undetermined.)

**210739 to 210761.**

From Florida. Plants growing at the United States Plant Introduction Garden, Coconut Grove. Numbered Nov. 19, 1953.

210739. CALLISTEMON LINEARIS DC. Myrtaceae.

210740. CORYNOCARPUS LAEVIGATA Forst. Corynocarpaceae.

210741. × CRINUM POWELLII Baker. Amaryllidaceae.

210742. GARDENIA CORNUTA Hemsl. Rubiaceae.

210743. GREVILLEA BANKSII R. Br. Proteaceae.

210744. HARPULLIA PENDULA Planch. Sapindaceae.

210745. HELIOCARPUS TRICHOPODUS Turcz. Tiliaceae.

210746. HYMENOSPORUM FLAVUM (Hook.) F. Muell. Pittosporaceae.

210747. LAFOENSIA PUNICAEFOLIA DC. Lythraceae.

210748. LAGERSTROEMIA INDICA L. Lythraceae.

210749. LAGUNARIA PATERSONII (Andr.) Don. Malvaceae.

210750. LECYTHIS ELLIPTICA Kunth. Lecythidaceae.

210751. LEEA HIRTA Banks. Vitaceae.

210752. LUCULIA sp. Rubiaceae.

210753. MELALEUCA LEUCADENDRON L. Myrtaceae.

**210739 to 210761—Continued**

210754. *POGONOPUS SPECIOSUS* (Jacq.) Schum. Rubiaceae.

210755. *SANTALUM ALBUM* L. Santalaceae.

210756. *SESBANIA* sp. Fabaceae.

210757. *STERCULIA RAMIFLORA* (R. Br.) Benth. Sterculiaceae.

210758 and 210759. *SYNCARPIA GLOMULIFERA* Ten. Myrtaceae.

210760. *TEPHROSIA CANDIDA* DC. Fabaceae.

210761. *TRISTANIA LACTIFLUA* F. Muell. Myrtaceae.

**210762. ZOYSIA JAPONICA** Steud. Poaceae.

From Korea. Seeds presented by the Korean Embassy, Washington, D. C.  
Received Nov. 19, 1953.

**210763. MEDICAGO SATIVA** L. Fabaceae.**Alfalfa.**

From Spain. Seeds presented by the Instituto Nacional de Investigaciones  
Agronómicas, Madrid. Received Nov. 20, 1953.

**210764 to 210766.**

From Chile. Seeds collected by Earl E. Smith, Agricultural Explorer,  
Bureau of Plant Industry, Soils, and Agricultural Engineering, Belts-  
ville, Md. Received Nov. 20, 1953.

210764. *ADESMIA* sp. Fabaceae.

No. 22. Twenty-five km. south of La Serena, Coquimbo. Oct. 29, 1953.

210765. *NOTHOFAGUS OBLIQUA* (Mirb.) Oerst. Fagaceae.

No. 30. Malleco Forest Reserve, Victoria, Malleco. Nov. 3, 1953.

210766. *NOTHOFAGUS PROCERA* Oerst.

No. 31. Malleco Forest Reserve, Victoria, Malleco. Nov. 3, 1953.

**210767. AMORPHOPHALLUS CAMPANULATUS** (Roxb.) Blume.  
Araceae.

From Florida. Plants growing at the United States Plant Introduction  
Garden, Coconut Grove. Numbered Nov. 19, 1953.

**210768. CUCUMIS MELO** L. Cucurbitaceae.**Muskmelon.**

From Turkey. Seeds collected by K. C. Vail, United States Bureau of Public  
Roads, Ankara. Received Nov. 20, 1953.

**210769. RUBUS** sp. Rosaceae.

From Switzerland. Plants presented by the Sous-Station Federale d'Essais,  
Chateauf-neuf-Sion, Valais. Received Nov. 23, 1953.

*Romy.*

**210770. SESAMUM INDICUM** L. Pedaliaceae.**Sesame.**

From Texas. Seeds grown at the Agricultural Experiment Station, College  
Station. Numbered Nov. 23, 1953.

Early-maturing type with white seeds; from central or northern China.

**210771 to 210798.**

From Italy. Seeds presented by the Food and Agriculture Organization of  
the United Nations, Rome. Received Nov. 24, 1953.

210771 to 210774. *FESTUCA ARUNDINACEA* Schreb. Poaceae.

**Fescue.**

210771. *UMN-413*. Great Britain 210773. *UMN-525*. Portugal.

210772. *UMN-443*. Spain. 210774. *UMN-618*. Morocco.



## 210771 to 210798—Continued

210775. *FESTUCA* sp.*UMN-614.* Morocco.210776. *HEDYSARUM FLEXUOSUM* L. Fabaceae.*UMN-619.* Morocco.210777. *LATHYRUS ARTICULATUS* L. Fabaceae.*UMN-527.* Portugal.210778. *LATHYRUS CICERA* L.*UMN-529.* Portugal.210779. *LATHYRUS CLYMENUM* L.*UMN-528.* Portugal.210780. *LATHYRUS OCHRUS* (L.) DC.*UMN-530.* Portugal.210781. *LATHYRUS SATIVUS* L.

Bittervetch.

*UMN-563.* Libya.210782. *MEDICAGO SCUTELLATA* (L.) Mill. Fabaceae.

Snail medic.

*UMN-582.* Greece.210783. *MEDICAGO TRIBULOIDES* Desr.

Barrel medic.

*UMN-507.* Australia.210784 and 210785. *ONOBRYCHIS VICIAEFOLIA* Scop. Fabaceae.

Sainfoin.

210784. *UMN-542.* Turkey.210785. *UMN-566.* Italy.210786. *ORYZOPSIS COERULESCENS* (Desf.) Hack. Poaceae.*UMN-624.*210787 and 210788. *ORYZOPSIS MILIACEA* (L.) Benth. & Hook.210787. *UMN-372.* Cyprus.210788. *UMN-625.* Morocco.210789. *PENNISETUM CILIARE* (L.) Link. Poaceae.*UMN-614.* Morocco.210790. *PHALARIS TUBEROSA* var. *STENOPTERA* (Hack.) Hitchc. Poaceae.

Harding grass.

*UMN-621.* Morocco.210791. *PHALARIS TUBEROSA* L.

Large canary grass.

*UMN-505.* Australia.210792. *PISUM SATIVUM* L. Fabaceae.

Pea.

*UMN-561.* Libya.210793. *PSORALEA BITUMINOSA* L. Fabaceae.

Scurf-pea.

*UMN-622.* Morocco.210794. *SCORPIURUS MURICATA* L. Fabaceae.*UMN-567.*210795. *VICIA FABA* L. Fabaceae.

Broadbean.

*UMN-572.*

**210771 to 210798—Continued**

210796 and 210797. *VICIA NARBONENSIS* L.

210796. *UMN-482*. Turkey.

210797. *UMN-538*. Portugal.

210798. *VICIA SATIVA* L.

Common vetch.

*UMN-395*.

**210799 to 210801.**

From Chile. Tubers collected by Earl E. Smith, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Nov. 24, 1953.

210799. *DIOSCOREA* sp. Dioscoreaceae.

No. 38. Angostura de Paine, Santiago Province. Nov. 11, 1953.

210800 and 210801. *DIOSCOREA SAXATILIS* Poepp.

Baños de Cauguenes, near Rancagua, O'Higgins Province. Nov. 15, 1953.

210800. No. 44.

210801. No. 45.

**210802. TRISTANIA CONFERTA R. Br. Myrtaceae.**

From Florida. Plants growing at the United States Plant Introduction Garden, Coconut Grove. Numbered Dec. 9, 1953.

Presented by D. D. McSwiney, Ft. Lauderdale, Florida. Grown from seeds obtained from Australia.

**210803. POLYGONUM ORIENTALE L. Polygonaceae.**

From Burma. Seeds collected by Ira K. Landon, Shan State Government, Rangoon. Received Dec. 9, 1953.

North of the Village Teachers Training School in Taunggyi.

**210804. ORYZA SATIVA L. Poaceae.**

Rice.

From Korea. Seeds presented by Kim Hon Kyu, through N. E. Jodon, Rice Experiment Station, Crowley, La. Received Dec. 9, 1953.

*Morning Glory*.

**210805. LILIUM NOBILISSIMUM Makino. Liliaceae.**

From Japan. Bulbs presented by Yamato-Noen Co., Ltd., Nikaido, Nara-ken. Received Nov. 25, 1953.

**210806 to 210810.**

From Chile. Seeds collected by Earl E. Smith, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Nov. 27, 1953.

Collected in 1953; from Estación Experimental-Sociedad Nacional de Agricultura, Fundo "La Vega," Paine-Huelquen, Santiago, unless otherwise noted.

210806. *HORDEUM* sp. Poaceae.

Barley.

No. 37. *Cruzat*. Forage barley selected by Erik van Baer. Nov. 6.

210807. *LUPINUS ARBOREUS* Sims. Fabaceae.

No. 43. Nov. 17. Yields a high percentage of alkaloids.

210808. *MEDICAGO ARBOREA* L. Fabaceae.

Tree alfalfa.

No. 42. Fundo "Las Palmas," near Quilpue, Valparaíso Province. Nov. 17. Plant vigorous, 6 to 8 feet tall.

**210806 to 210810—Continued**

210809 and 210810. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.

210809. No. 35. *Menflo.* Nov. 6.

210810. No. 36. *Baño.* Nov. 6.

**210811 to 210813.**

From Chile. Tubers collected by E. E. Smith, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Nov. 30, 1953.

From Fundo "La Gloria del Pangal," Limache, Valparaíso Province.

210811. *DIOSCOREA* sp. Dioscoreaceae.

No. 48. Nov. 21, 1953.

210812. *DIOSCOREA* sp.

No. 49. Nov. 21, 1953.

210813. *SOLANUM MAGLIA* Schlecht. Solanaceae.

No. 50. Nov. 21, 1953. *Papa Zorro.* Tubers very small.

**210814 to 210818. IRIS spp. Iridaceae.**

From Israel. Bulbs presented by M. Zohary, Hebrew University, Jerusalem. Received Nov. 30, 1953.

210814. *IRIS ATROPURPUREA* var. *ATROFUSCA* Baker.

210815. *IRIS HAYNEI* Baker.

210816. *IRIS HELENÆ* Barbey.

210817. *IRIS LORTETI* Barbey.

210818. *IRIS NAZARENA* (Foster) Dinsm.

**210819. PROSOPIS CHILENSIS (Molina) Stuntz. Mimosaceae.**

From Peru. Seeds presented by A. F. Swanson, Foreign Agricultural Service, United States Department of Agriculture, Washington, D. C. Received Nov. 30, 1953.

From Lima.

**210820. COFFEA ARABICA var. MARAGOGIPE Froehn. Rubiaceae. Arabian coffee.**

From Guatemala. Seeds presented by the Instituto Agropecuario Nacional, Guatemala City. Received Dec. 1, 1953.

**210821 to 210823.**

From Israel. Seeds presented by the Weizmann Institute of Science, Rehovoth. Received Dec. 1, 1953.

210821. *MADIA SATIVA* Molina. Asteraceae.

210822 and 210823. *RICINUS COMMUNIS* L. Euphorbiaceae. Castorbean.

210822. Male.

210823. H.S.I.—1953.

**210824 to 210833. ARACHIS HYPOGAEA L. Fabaceae. Peanut.**

From Argentina. Seeds presented by the Ministry of Agriculture, Buenos Aires. Received Dec. 1, 1953.

Localities given are original sources.

210824. *Guaycuru.* From Misiones.

210825. *Mf. 2 Negro 4x Fla; 249-40-B3.*

**210824 to 210833—Continued**210826. *Mf. 43 Toeban* × *Macspan*.210827. *Mf. 47 S8 (Overo)*. Bolivia.210828. *Mf. 47 S103 (Blanco S. Fé)*. Santa Fe Province.210829. *Mf. 52 Spanish* × *Guaycuru*.210830. *Mf. 53 Colorado* × *Guaycuru*.210831. *46 S46 (Overo)*. Bolivia.210832. *47 S8 (Overo)*. Bolivia.210833. *47 S103 (Blanco S. Fé)*. Santa Fe Province.**210834. CARTHAMUS TINCTORIUS L. Asteraceae. Safflower.**

From Spain. Seeds presented by the Instituto Nacional Para la Producción de Semillas Selectas, Madrid. Received Dec. 2, 1953.

*Cosecha 1953.***210835 and 210836. QUERCUS spp. Fagaceae.**

From Spain. Seeds presented by the Ministerio de Agricultura, Madrid. Received Dec. 2, 1953.

210835. *QUERCUS ILEX* L.

Holly oak.

210836. *QUERCUS PYRENAICA* Willd.**210837. CYNODON DACTYLON (L.) Pers. Poaceae.****Bermuda grass.**

From Iran. Seeds presented by the Agricultural Attaché, American Embassy, Tehran. Received Dec. 2, 1953.

Collected from a lawn in Tehran.

**210838. MEDICAGO ARBOREA L. Fabaceae. Tree alfalfa.**

From Greece. Seeds presented by the Ministry of Agriculture, Akrata. Received Dec. 2, 1953.

**210839 and 210840. LEUCOTHOE spp. Ericaceae.**

From Maryland. Plants growing at the United States Plant Introduction Garden, Glenn Dale. Numbered Dec. 3, 1953.

Presented by the Kingsville Nurseries, Kingsville, Md.

210839. *LEUCOTHOE AXILLARIS* (Lam.) D. Don.210840. *LEUCOTHOE POPULIFOLIA* (Lam.) Dipp.**210841. ULMUS PARVIFOLIA Jacq. Ulmaceae. Leatherleaf elm.**

From Georgia. Plant growing at the Barbour Lathrop Plant Introduction Garden, Savannah. Numbered Dec. 3, 1953.

Growing under P. I. 112116, a number properly assigned to *Ulmus pumila* var. *pilosa*.

**210842. PRUNUS CAPULI Cav. Amygdalaceae. Capulin.**

From Washington. Seeds presented by the Irrigation Experiment Station, Prosser. Received Dec. 3, 1953.

**210843 to 210858. TRITICUM AESTIVUM L. Poaceae.****Common wheat.**

From Iran. Seeds presented by the Ministry of Agriculture, Tehran. Received Dec. 3, 1953.

210843. *Chah Passande*.

210845. No. 7959.

210844. No. 4820.

210846. No. 7962.



## 210843 to 210858—Continued

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|--------------------------|--------------------------|
| 210847. <i>No. 7963.</i> | 210853. <i>No. 8935.</i> |
| 210848. <i>No. 7979.</i> | 210854. <i>No. 8947.</i> |
| 210849. <i>No. 8094.</i> | 210855. <i>No. 8963.</i> |
| 210850. <i>No. 8187.</i> | 210856. <i>No. 9135.</i> |
| 210851. <i>No. 8226.</i> | 210857. <i>No. 9339.</i> |
| 210852. <i>No. 8291.</i> | 210858. <i>No. 9358.</i> |

210859 to 210861. *TRITICUM AESTIVUM* L. Poaceae.  
Common wheat.

From Portugal. Seeds presented by the Estação de Melhoramento de Plantas, Elvas. Received Dec. 3, 1953.

210859. *Lusitano 2973A.*  
210860. *Pirana 3816.*  
210861. *Jiorgio 3627.*

210862 to 210878. *TRITICUM AESTIVUM* L. Poaceae.  
Common wheat.

From Brazil. Seeds presented by the Agricultural Experiment Station, Pelotas, Rio Grande do Sul. Received Dec. 3, 1953.

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|--------------------------------|-----------------------------|
| 210862. <i>No. 194-49-51.</i>  | 210871. <i>No. 4219-50.</i> |
| 210863. <i>No. 2567-49-51.</i> | 210872. <i>No. 4402-50.</i> |
| 210864. <i>No. 2585-49.</i>    | 210873. <i>No. 4493-50.</i> |
| 210865. <i>No. 3736-50.</i>    | 210874. <i>No. 4624-50.</i> |
| 210866. <i>No. 3777-50.</i>    | 210875. <i>No. 4743-50.</i> |
| 210867. <i>No. 3790-50.</i>    | 210876. <i>No. 4756-50.</i> |
| 210868. <i>No. 4204-50.</i>    | 210877. <i>No. 4767-50.</i> |
| 210869. <i>No. 4207-50.</i>    | 210878. <i>No. 4771-50.</i> |
| 210870. <i>No. 4209-50.</i>    |                             |

210879 to 210885. *TRITICUM AESTIVUM* L. Poaceae.  
Common wheat.

From Jordan. Seeds presented by the Department of Agriculture, Amman. Received Dec. 3, 1953.

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| 210879. <i>F.8.</i>             | 210883. <i>Moghraby.</i>     |
| 210880. <i>Italian.</i>         | 210884. <i>Norai.</i>        |
| 210881. <i>Kaffel Ranman.</i>   | 210885. <i>Safra Jerash.</i> |
| 210882. <i>Karakeyal Hamra.</i> |                              |

210886 to 210890. *TRITICUM AESTIVUM* L. Poaceae.  
Common wheat.

From Mexico. Seeds presented by the Rockefeller Foundation, Mexico City. Received Dec. 3, 1953.

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|----------------------------|-----------------------------|
| 210886. <i>Kentana 52.</i> | 210889. <i>Supremo 211.</i> |
| 210887. <i>Lerma 52.</i>   | 210890. <i>Yaqui 50.</i>    |
| 210888. <i>Supremo 51.</i> |                             |

## 210891 to 210916.

From Pakistan. Seeds presented by the Punjab Agricultural College, Lyallpur. Received Dec. 4, 1953.

210891. HORDEUM sp. Poaceae.

Barley.

*C. 121-33 B48.*

210892. HORDEUM sp.

*C 123-1 B49.*

210893. HORDEUM sp.

*C 141 B45.*

210894. HORDEUM sp.

*C 144 B47.*

210895. HORDEUM sp.

*C 5 B46.*

210896 to 210916. TRITICUM AESTIVUM L. Poaceae.

Common wheat.

210896. C-217.

210907. C-518.

210897. C-245.

210908. C-591.

210898. C-247.

210909. B.B. 14.

210899. C-248.

210910. Type 1.

210900. C-250.

210911. T. 2.

210901. C-256.

210912. T. 3.

210902. C-258.

210913. T. 11.

210903. C-269.

210914. T. 15.

210904. C-271.

210915. 8 A.

210905. C-273.

210916. 9 D.

210906. C-288.

## 210917 to 210941. RHODODENDRON. Ericaceae.

From England. Plants presented by the Exbury Estate, Exbury, Southampton. Received Dec. 4, 1953.

210917. *Aurora.*

210930. *Hotspur Red.*

210918. *Basilisk A.M.*

210931. *Hotspur A.M.*

210919. *Beaulieu.*

210932. *Hugh Wormald.*

210920. *Berryrose A.M.*

210933. *Klondyke.*

210921. *Brazil.*

210934. *Knighthood.*

210922. *Bright Forecast.*

210935. *Marina.*

210923. *Cecile.*

210936. *Nightlight.*

210924. *Fireball.*

210937. *Princess Royal.*

210925. *George Reynolds.*

210938. *Royal Lodge.*

210926. *Gibraltar.*

210939. *Salmon Orange.*

210927. *Ginger.*

210940. *Scarlet Pimpernel.*

210928. *Goldenhorn.*

210941. *Strawberry Ice.*

210929. *Hotspur Yellow.*

210942 to 210978. TRITICUM AESTIVUM L. Poaceae.

Common wheat.

From Cyprus. Seeds presented by the Department of Agriculture, Nicosia.

Received Dec. 7, 1953.

210942. *Pansyiotico* S-50-1.  
210943. *Hamira* S-50-2.  
210944. *Muri* S-50-3.  
210945. *Scalayatis* S-50-35.  
210946. *Akathiotico Asprotheri* S-50-37.  
210947. *Akathiotico Naurotheri* S-50-38.  
210948. *Kambourico Famaquita* S-50-39.  
210949. *Maurouroullos* S-50-40.  
210950. *Asprouroullos* S-50-41.  
210951. *Kyperounda Yrallourico* S-51-27.  
210952. *Damliko or Liaouri* S-51-28.  
210953. *Daphitico Chrysositaro* S-51-31.  
210954. *Macrotheri* S-51-53.  
210955. *Tripolitico* S-51-61.  
210956. *Kamboura* S-52-61.  
210957. *Pellositaro* S-52-64.  
210958. *B × I. P. I.* S-50-5.  
210959. *Psathas* S-50-6.  
210960. *Kyperounda* S-50-7.  
210961. *Kambourico × Kyperounda* S-50-17.  
210962. *Tripolitico × Do*, S-50-19.  
210963. *Kyperounda × Kambourico* S-50-20.  
210964. *Psathas × Mentana II* S-50-21.  
210965. *Kyperounda × 1-39*.  
210966. *Thatcher × Kambourico* S-50-26.  
210967. *Kyperounda × Simpson Rongai* S-50-29.  
210968. *Gisa 3-50-32*. Originally from Egypt.  
210969. *Croisement 44370 I-50-57*.  
210970. *Giza 139, I-50-63*. Originally from Egypt.  
210971. *Mokhtar I-50-65*. Originally from Egypt.  
210972. *T. A. 622-3 Sasl 2176 I-50-65*. Originally from Egypt.  
210973. *Iumillo R. L. 7 I-50-72*. Originally from Italy.  
210974. *R. L. 2265 × Redman I-50-73*. Originally from Canada.  
210975. *Insignia I-51-81*.  
210976. *Koorda I-51-82*. Originally from Australia.  
210977. *Lawrence I-51-85*. Originally from Australia.  
210978. *Charter I-52-59*. Originally from Australia.

**210979. CYNODON DACTYLON (L.) Pers. Poaceae.****Bermuda grass.**

From Iran. Stolons presented by Maurice E. Heath, Technical Cooperation Administration, Tehran. Received Sept. 25, 1953; numbered Dec. 8, 1953.

From the Middle East Hotel Garden, Tehran.

**210980 to 210982. CAPSICUM FRUTESCENS L. Solanaceae.****Redpepper.**

From Washington. Seeds planted at the Regional Plant Introduction Station, Pullman. Numbered Dec. 8, 1953.

From New Mexico; grown at the Agricultural Experiment Station, near Las Cruces.

**210980. Ancho. Saltillo.** Fruits short, wide.

**210981. Cerrano. Iguala.** Fruits very small.

**210982. Chiloca. Iguala.** Fruits short and wide, brownish.

**210983 and 210984. ORYZA SATIVA L. Poaceae.****Rice.**

From Costa Rica. Seeds presented by the Ministry of Agriculture, San José. Received Dec. 9, 1953.

**210983. Early Prolific.** (Sel.-1028).

**210984. Ladywright.** (15-11-3).

**210985. CRINUM GIGANTEUM Andr. Amaryllidaceae.**

From Maryland. Plant growing at the United States Plant Introduction Garden, Glenn Dale. Numbered Dec. 9, 1953.

Originally received Oct. 7, 1949, from the Royal Botanic Gardens, Kew, Surrey, England, through Dr. J. T. Baldwin.

**210986. LILIUM. Liliaceae.**

From Japan. Bulbs presented by H. Honda, Isahaya, Nagasaki. Received Dec. 15, 1953.

**210987 to 211113.**

From Afghanistan. Seeds collected by H. S. Gentry, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Maryland. Received Dec. 9, 1953.

Collected in 1953.

**210987. AEGILOPS CYLINDRICA Host. Poaceae.**

No. 12862. Fifty miles west of Kunduz, Kataghan Province. Oct. 19. Annual.

**210988. AGROPYRON sp. Poaceae.**

No. 12730. Bund-i-Amir, Kabul Province Oct. 8. Perennial.

**210989. AGROPYRON REPENS (L.) Beauv.****Quackgrass.**

No. 21733. Eighteen miles east of Bamian, Kabul Province. Oct. 9. Perennial.

**210990. AGROPYRON TRICHOPHORUM (Link) Richt.**

No. 12760. Twenty miles southwest of Keshm, along road to Faizabad, Kataghan Province. Oct. 12. Perennial.

**210991. AGROPYRON sp.**

No. 12929. Zarmast Pass, Herat Province. Oct. 30. Perennial.



## 210987 to 211113—Continued

210992. *AGROPYRON INTERMEDIUM* (Host.) Beauv.

No. 12932. Herat, Herat Province. Nov. 1. Perennial.

210993 and 210994. *ALLIUM CEPA* L. Liliaceae.

Onion.

210993. No. 12925. Galeh Nau, Herat Province. Oct. 29.

210994. No. 12952. Herat, Herat Province. Nov. 1.

210995. *AMARANTHUS* sp. Amaranthaceae.

No. 12857. Kunduz, Kataghan Province. Oct. 19. Tall coarse annual.

210996. *ANDROPOGON* sp. Poaceae.

No. 12716. Bund-i-Amir, Kabul Province. Oct. 8. Coarse, hydrophytic, cotton-top perennial.

210997. *ANDROPOGON* sp.

No. 12740. Twenty miles northeast of Duab, Kabul Province. Oct. 9.

210998. *AVENA* sp. Poaceae.

No. 12709. Bamian. Oct. 7.

210999. *AVENA* sp.

No. 12744. Twenty miles northeast of Duab, Kabul, Province. Oct. 9.

211000. *BRASSICA* sp. Brassicaceae.

No. 12772. Market, Faizabad, Badakhshan Province. Oct. 13. Used for pickling fruits and vegetables.

211001 and 211002. *BROMUS OXYODON* Schrenk. Poaceae.

211001. No. 12752. Near Taliabad, Kataghan Province. Oct. 11. Annual.

211002. No. 12759. Twenty miles southwest of Keshm, Kataghan Province. Oct. 12. Slender perennial.

211003. *BROMUS* sp.

No. 12791. Faizabad, Badakhshan Province. Oct. 14. Annual.

211004. *BROMUS PSEUDODANTHONIAE* Drobov.

No. 12818. Twenty miles northeast of Keshm, Badakhshan Province. Oct. 16. Annual.

211005. *BROMUS* sp.

No. 12821. Three miles east of Khanabad, Kataghan Province. Oct. 17.

211006 to 211008. *BROMUS PSEUDODANTHONIAE* Drobov.

211006. No. 12861. Fifty miles west of Kunduz, Kataghan Province. Oct. 19. Small annual.

211007. No. 12904. Shigarghan, Mazar-i-Sharif. Oct. 23. Annual.

211008. No. 12917. Twelve miles southwest of Maimana, Maimana Province. Oct. 28.

211009 and 211010. *CICER ARIETINUM* L. Fabaceae.

Chickpea.

211009. No. 12764. Faizabad, Badakhshan Province. Oct. 13. Seeds small.

211010. No. 13021. Market, Kandahar. Nov. 6. Seeds small.

211011. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae.

Watermelon.

No. 12750. Baghlan, Kataghan Province. Oct. 10. Fruit whitish green, oblong-roundish; flesh pink.

**210987 to 211113—Continued****211012. CITRULLUS COLOCYNTHIS** Schrad.

No. 12846. Market, Kunduz, Kataghan Province. Oct. 17. Said to be wild.

**211013. CITRULLUS VULGARIS** Schrad. **Watermelon.**

No. 12993. Herat, Herat Province. November. Fruit, large with tapered end, green-striped; rind thick; flesh pink; seeds white.

**211014. CORIANDRUM SATIVUM** L. **Coriander.**

No. 12776. Market, Faizabad, Badakhshan Province. Oct. 13.

**211015 to 211017. CUCUMIS MELO** L. **Muskmelon.**

**211015.** No. 12748. Baghlan, Kataghan Province. Oct. 10. Fruit large, bright yellow with dark-green broken streaks; flesh thick, firm, whitish.

**211016.** No. 12749. Baghlan, Kataghan Province. Oct. 10.

**211017.** No. 12755. Taliabad, Kataghan Province. Oct. 11. Fruit smooth, yellowish, oblong elliptic; flesh coarse.

**211018: CUCUMIS MELO** var. **INODORUS** Naud.

No. 12848. Khanabad, Kataghan Province. Oct. 17. Fruit large, yellowish, smooth, Casaba type.

**211019. CUCUMIS MELO** L. **Muskmelon.**

No. 12848. Khanabad, Kataghan Province. Oct. 17. Fruit large, yellow and green, ovoid, Casaba type.

**211020. CYDONIA** sp. **Malaceae.**

No. 12783. Market, Faizabad, Badakhshan Province. Oct. 13. Fruit pear-shaped.

**211021 to 211023. CYNODON DACTYLON** (L.) Pers. **Poaceae.** **Bermuda grass.**

**211021.** No. 12739. Twenty miles northeast of Duab, Kabul Province. Oct. 9. Coarse-leaved variety.

**211022.** No. 12741. Twenty miles northeast of Duab, Kabul Province, Oct. 9. Large, robust form.

**211023.** No. 12859. Thirty miles west of Kunduz, Kataghan Province. Oct. 19. Perennial; xerophytic.

**211024. DAUCUS CAROTA** L. **Apiaceae.** **Carrot.**

No. 12977. Market, Herat, Herat Province. Nov. 3. Root purple.

**211025. ECHINOCHLOA CRUS-GALLII** (L.) Beauv. **Poaceae.**

No. 12743. Twenty miles northeast of Duab, Kabul Province. Oct. 9. Seeds edible.

**211026. ECHINOCHLOA CRUS-GALLII** var. **MITIS** (Pursh.) Peterm.

No. 12786. Faizabad, Badakhshan Province. Oct. 14. Leafy perennial.

**211027. ELYMUS CAPUT-MEDUSAE** L. **Poaceae.** **Grass.**

No. 12763. Thirty miles northeast of Keshm, Badakhshan Province. Oct. 12. Annual.

**211028. ELYMUS** sp.

No. 12731. Fifteen miles east of Bund-i-Amir. Oct. 8. Coarse perennial.

**211029. ERAGROSTIS STAROSSELSKYI** Grossh. **Poaceae.**

No. 12863. Field near Mazar-i-Sharif. Oct. 19. Annual.

## 210987 to 211113—Continued

211030. *ERAGROSTIS PILOSA* (L.) Beauv.

No. 12864. Field near Mazar-i-Sharif. Oct. 19. Annual.

211031. *DESMOSTACHYA BIPINNATA* (L.) Stapf. Poaceae.

No. 12979. Farah, Farah Province. Nov. 4. Coarse bunch grass; xerophytic.

211032. *FESTUCA ARUNDINACEA* Schreb. Poaceae.

Fescue.

No. 12931. Herat, Herat Province. Nov. 1. Leafy, sod-forming perennial.

211033. *HIBISCUS CANNABINUS* L. Malvaceae.

Kenaf.

No. 12828. Near Khanabad, Kataghan Province. Oct. 17.

211034. *HORDEUM* sp. Poaceae.

Barley.

No. 12699. Bamian, Kabul Province. Oct. 7. Hull-less; spring sown.

211035. *HORDEUM* sp.

No. 12700. Bamian, Kabul Province. Oct. 7. Spring sown.

211036. *HORDEUM* sp.

No. 12712. Along road from Bamian to Bund-i-Amir. Oct. 8. Spring sown.

211037. *HORDEUM BREVISUBULATUM* (Trin.) Link.

No. 12723. Bund-i-Amir, Kabul Province. Oct. 8. Colonial, single plants with rather sparse leaves.

211038. *HORDEUM* sp.

No. 12735. Eighteen miles east of Bamian, Kabul Province. Oct. 9. Tall slender stems.

211039. *HORDEUM* sp.

No. 12753. Near Taliabad, Kataghan Province. Oct. 11. Spicate annual.

211040. *HORDEUM* sp.

No. 12787. Faizabad, Badakhshan Province. Oct. 14. Tall perennial, with bulbous base.

211041. *HORDEUM* sp.

No. 12788. Faizabad, Badakhshan Province. Oct. 14. Tall annual.

211042. *HORDEUM* sp.

No. 12796. Near Faizabad, Badakhshan Province. Oct. 14. Winter barley.

211043. *HORDEUM* sp.

No. 12836. Market, Khanabad, Kataghan Province. Oct. 17.

211044. *HORDEUM* sp.

No. 12858. Twenty-five miles west of Kunduz, Kataghan Province. Oct. 19. Annual.

211045. *HORDEUM* sp.

No. 12908. Ankhuri, Maimana Province. Oct. 23. Annual.

211046. *HORDEUM* sp.

No. 12910. Maimana, Maimana Province. Oct. 27. Weedy, annual.

211047. *HORDEUM* sp.

No. 12915. Eight miles southwest of Maimana, Maimana Province. Oct. 28. Perennial.

## 210987 to 211113—Continued

211048. *HORDEUM* sp.

No. 12916. Eight miles southwest of Maimana, Maimana Province. Oct. 28. Perennial.

211049. *HORDEUM* sp.

No. 12918. Eight miles southwest of Maimana, Maimana Province. Oct. 28. Annual.

211050. *IMPERATA CYLINDRICA* (L.) Beauv. Poaceae.

No. 12747. Baghlan, Kataghan Province. Oct. 10.

211051. *LAGENARIA LEUCANTHA* (Duch.) Rusby. Cucurbitaceae.

Calabash gourd.

No. 12798. Near Faizabad, Badakhshan Province. Oct. 14.

211052. *LENS CULINARIS* Medic. Fabaceae.

Lentil.

No. 12891. Market, Mazar-i-Sharif. Oct. 20.

211053. *LUFFA ACUTANGULA* (L.) Roxb. Cucurbitaceae.

Singkwa towelgourd.

No. 12804. Near Faizabad, Badakhshan Province. Oct. 14. Fruits cooked and eaten.

211054. *MEDICAGO SATIVA* L. Fabaceae.

Alfalfa.

No. 12950. Market, Herat, Herat Province. Nov. 1.

211055. *ONOBRYCHIS GAUBE* Bornm. Fabaceae.

No. 12706. Bamian, Kabul Province. Oct. 7. Perennial.

211056. *ORYZA SATIVA* L. Poaceae.

Rice.

No. 12742. Twenty miles northeast of Duab, Kabul Province. Oct. 9.

211057. *ORYZOPSIS* sp. Poaceae.

No. 12738. Fourteen miles southwest of Duab, Kabul Province. Oct. 9. Small tufts.

211058 to 211060. *PANICUM MILIACEUM* L. Poaceae.

Proso.

211058. No. 12766. Market, Faizabad, Badakhshan Province. Oct. 13.

211059. No. 12956. Market, Herat, Herat Province. Nov. 1.

211060. No. 13018. Market, Kandahar. Nov. 6.

211061. *ENNEAPOGON PERSICUM* Boiss. Poaceae.

No. 12737. Fourteen miles southwest of Duab, Kabul Province. Oct. 9. Perennial.

211062. *PENNISETUM ORIENTALE* L. Rich. Poaceae.

No. 12736. Fourteen miles southwest of Duab, Kabul Province. Oct. 9.

211063. *PENNISETUM FLACCIDUM* Griseb.

No. 12785. Faizabad, Badakhshan Province. Oct. 14. Bushy perennial.

211064. *PHALARIS MINOR* Retz. Poaceae.

No. 12745. Twenty miles northeast of Duab, Kabul Province. Oct. 9. Annual.

211065. *PHALARIS* sp.

No. 12900. Shibarghan, Mazar-i-Sharif. Oct. 21. Annual.

211066 and 211067. *PHASEOLUS AUREUS* Roxb. Fabaceae. Mung bean.

211066. No. 12829. Market, Khanabad, Kataghan Province. Oct. 17.

211067. No. 13017. Market, Kandahar. Nov. 6.



## 210987 to 211113—Continued

211068. *PHASEOLUS MUNGO* L.

Urd.

No. 13016. Market, Kandahar. Nov. 16.

211069. *PHLEUM PANICULATUM* Huds. Poaceae.

No. 12920. Fifty miles southwest of Maimana, Maimana Province. Oct. 28. Puny annual.

211070 to 211073. *POA BULBOSA* L. Poaceae.

211070. No. 12761. Twenty miles southwest of Keshm along road to Faizabad, Kataghan Province. Oct. 12. Small, fine-leaved perennial.

211071. No. 12816. Twenty miles northeast of Keshm, Badakhshan Province. Oct. 16. Annual.

211072. No. 12911. Maimana, Maimana Province. Oct. 27. Cespitose perennial.

211073. No. 12913. Twelve miles southwest of Maimana, Maimana Province. Oct. 28. Perennial.

211074. *POLYPOGON FUGAX* Nees. Poaceae.

(No field note.)

211075 and 211076. *PRUNUS AMYGDALUS* Batsch. Amygdalaceae. Almond.

211075. No. 12831. Market, Khanabad, Kataghan Province. Oct. 17.

211076. No. 12898. Market, Mazar-i-Sharif. Oct. 20.

211077 to 211079. *PRUNUS ARMENIACA* L.

Apricot.

211077. No. 12810. Market, Faizabad, Badakhshan Province. Oct. 15.

211078. No. 12838. Market, Khanabad, Kataghan Province. Oct. 17.

211079. No. 12973. Market, Herat, Herat Province. Nov. 3. Seeds sweet.

211080. *PRUNUS DOMESTICA* L.

Common plum.

No. 12830. Market, Khanabad, Kataghan Province. Oct. 17. Locally dried.

211081. *PRUNUS PERSICA* (L.) Batsch.

Peach.

No. 12812. Faizabad, Badakhshan Province. Oct. 15. Freestone.

211082. *PRUNUS* sp.

No. 12809. Market, Faizabad, Badakhshan Province. Oct. 17. Sold dried in the market.

211083. *PRUNUS* sp.

No. 12878. Market, Mazar-i-Sharif. Oct. 20.

211084 and 211085. *RAPHANUS SATIVUS* L. Brassicaceae.

Radish.

211084. No. 12840. Market, Khanabad, Kataghan Province. Oct. 17.

211085. No. 12955. Market, Herat, Herat Province. Nov. 1.

211086. *ROSA* sp. Rosaceae.

No. 12657. Garden of Amanula's palace south of Kabul, Kabul Province. Sept. 27. Large shrub.

211087. *ROSA* sp.

No. 12806. Near Faizabad, Badakhshan Province. Oct. 14. Clambering.

211088. *SESAMUM INDICUM* L. Pedaliaceae.

Sesame.

No. 12865. Mazar-i-Sharif. Oct. 19.

**210987 to 211113—Continued****211089. SISYRINCHIUM** sp. Iridaceae.

No. 12708. Bamian. Oct. 7. Xerophyte.

**211090. SORGHUM** sp. Poaceae.

No. 12867. Mazar-i-Sharif. Oct. 19. Tall perennial.

**211091. STIPA** sp. Poaceae.

No. 12728. Bund-i-Amir, Kabul Province. Oct. 8. Annual.

**211092. TRIFOLIUM PRATENSE** L. Fabaceae. Red clover.

No. 12762. Keshm, Badakhshan Province. Oct. 12.

**211093 to 211096. TRIFOLIUM RESUPINATUM** L. Persian clover.**211093.** No. 12890. Market, Mazar-i-Sharif. Oct. 20. Annual.**211094.** No. 12951. Market, Herat, Herat Province. Nov. 1.**211095.** No. 12975. Market, Herat, Herat Province. Nov. 3.**211096.** No. 13003. Market, Girishk, Kandahar Province. Nov. 6.**211097 to 211105. TRITICUM AESTIVUM** L. Poaceae. Common wheat.**211097.** No. 12696. Three miles southeast of Shibar Pass, along road to Pulkunry. Oct. 6.**211098.** No. 12711. Bamian, Kabul Province. Oct. 7. Spring wheat.**211099.** No. 12713. Shaidan along road from Bamian to Bund-i-Amir, Kabul Province. Oct. 8.**211100.** No. 12729. Bund-i-Amir. Oct. 8. Spring wheat.**211101.** No. 12774. Market, Faizabad, Badakhshan Province. Oct. 13.  
Sown in fall.**211102.** No. 12794. Near Faizabad, Badakhshan Province. Oct. 14.  
Spring wheat.**211103.** No. 12888. Market, Mazar-i-Sharif. Oct. 20. Winter wheat;  
irrigated.**211104.** No. 12972. Market, Herat, Herat Province. Nov. 3. Spring  
wheat.**211105.** No. 13012. Girishk, Kandahar Province. Nov. 6. Winter wheat.**211106. VICIA ERVILIA** (L.) Willd. Fabaceae. Vetch.No. 12795. Near Faizabad, Badakhshan Province. Oct. 14. Fed to  
livestock.**211107 and 211108. VICIA FABA** L. Broadbean.**211107.** No. 12697. Bamian, Kabul Province. Oct. 7.**211108.** No. 12797. Near Faizabad, Badakhshan Province. Oct. 14.**211109 to 211111. VIGNA SINESIS** (Torner) Savi. Fabaceae. Cowpea.**211109.** No. 12803. Near Faizabad, Badakhshan Province. Oct. 14.**211110.** No. 13015. Market, Kandahar. Nov. 6.**211111.** No. 13022. Market, Kandahar. Nov. 6.**211112 and 211113. ZIZIPHUS JUJUBA** Mill. Rhamnaceae. Jujube.**211112.** No. 12882. Market, Mazar-i-Sharif. Oct. 20.**211113.** No. 12883. Market, Mazar-i-Sharif. Oct. 20.

211114. *CAPSICUM FRUTESCENS* L. Solanaceae. **Redpepper.**

From Maryland. Seeds at the United States Plant Introduction Garden, Glenn Dale. Received Jan. 30, 1951. Numbered Dec. 14, 1953.

Collected by W. A. Archer (No. 9008) at Bishoftur, Ethiopia. Dec. 2, 1950

## 211115 to 211118.

From Israel. Seeds presented by M. Reisner, "Hazerah," Haifa. Received Dec. 14, 1953.

211115 and 211116. *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**

211115. *Ananas Yokneam*.

211116. *Tal Hagilboa*.

211117. *CUCUMIS SATIVUS* L. **Cucumber.**

*Beth-Alpha*.

211118. *LACTUCA SATIVA* L. Cichoriaceae. **Lettuce.**

*Rinat Hakfar*.

211119. *LYCORIS RADIATA* (L' Her.) Herb. Amaryllidaceae.

From Japan. Bulbs obtained from Masayoshi Asamo, Hongo, Tokyo. Received Jan. 6, 1954.

211120 to 211126. *SACCHARUM*. Poaceae. **Sugarcane.**

From Taiwan. Cuttings presented by the Taiwan Sugar Experiment Station, Pingtung. Received Dec. 10, 1953.

211120. F 34-1428.

211124. PT 48-44.

211121. PT 43-52.

211125. PT 48-67.

211122. PT 48-1.

211126. PT 48-80.

211123. PT 48-4.

211127 to 211131. *TRITICUM* × *AGROPYRON*. Poaceae.

From England. Seeds presented by the Plant Breeding Institute, Cambridge. Received Dec. 8, 1953.

Five amphidiploids produced at the Institute.

211127. TA 325. *Triticum turgidum* × *Agropyron obtusiusculum*.

211128. TA 326. *Triticum durum* × *Agropyron obtusiusculum*.

211129. TA 328. *Triticum durum* × *Agropyron tricophorum*.

211130. TA 381. *Triticum orientale* × *Agropyron intermedium*.

211131. SA 118. *Triticum dicoccum* × *Agropyron intermedium*.

211132 and 211133. *ORYZA SATIVA* L. Poaceae. **Rice.**

From India. Seeds presented by the Central Rice Research Institute, Cuttack, Orissa. Received Dec. 10, 1953.

211132. AC 328-Co-25.

211133. AC 329-Co-26.

211134 to 211156. *ORYZA SATIVA* L. Poaceae. **Rice.**

From Thailand. Seeds presented by J. W. Coddington, Fayetteville, Ark. Received Dec. 10, 1953.

211134. *Daw Dok Pau*.

211138. *Keow Kai*.

211135. *Daw E Hen*.

211139. *Keow Khao*.

211136. *Feung Kam*.

211140. *Keow Lai*.

211137. *Keow Daw*.

211141. *Keow Mon*.

**211134 to 211156—Continued**

211142. <i>Keow Pieng.</i>	211150. <i>Pa Kud.</i>
211143. <i>Lai Dang.</i>	211151. <i>Pa Kum.</i>
211144. <i>Lai Daw.</i>	211152. <i>Pa Leud Kwai.</i>
211145. <i>Lai Leaung.</i>	211153. <i>Pa Meud.</i>
211146. <i>Lai No. 13.</i>	211154. <i>Pa Mon.</i>
211147. <i>Muey Nong.</i>	211155. <i>Pa Niew.</i>
211148. <i>Pa.</i>	211156. <i>Pa Piang.</i>
211149. <i>Pa Dang.</i>	

**211157 and 211158. RICINUS COMMUNIS L. Euphorbiaceae.****Castorbean.**

From Argentina. Seeds presented by the Instituto de Fitotecnica, Ministerio de Agricultura, Buenos Aires. Received Dec. 14, 1953.

211157. No. 2414-8.

211158. No. 2414-9.

**211159 to 211161.**

From Iraq. Seeds collected by H. W. Springfield, United States Technical Cooperation Administration, American Embassy, Baghdad. Received Dec. 14, 1953.

211159. *CYMOPOGON* sp. Poaceae.

Collected at Tel Afar. Nov. 14, 1953. Seeds reported to be eaten by shepherds.

211160. *MELICA* sp. Poaceae.

Collected at Ryat. June 29, 1953.

211161. *PAPPOPHORUM* sp. Poaceae.

Collected 8 kms. north of Kirkuk. June 28, 1953.

**211162 to 211571.**

From the Western United States. Seeds collected by A. J. Casady, Fort Hays Experiment Station, Fort Hays, Kansas. Numbered Dec. 15, 1953.

A group of grasses collected from natural habitats in Kansas, Texas, and Oklahoma for improvement and selection studies under supervision of the Kansas Agricultural Experiment Station. Collected in September and October 1953.

211162 to 211167. *ANDROPOGON GERARDII* Vitm. Poaceae.

From Kansas.

211162. No. 53. Ten miles north of Medway. Medium height.

211163. No. 120. Two miles south of Rush Center.

211164. No. 121. Two miles south of Rush Center.

211165. No. 128. Ten miles west of Great Bend.

211166. No. 131. Five miles southwest of Lyons.

211167. No. 132. Five miles southwest of Lyons.

211168 to 211170. *ANDROPOGON HALII* Hack.

211168. No. 70. Ten miles southwest of Boise City, Okla.

211169. No. 109. Ten miles northwest of Hugoton, Kansas.

211170. No. 116. Twelve miles southwest of Ulysses, Kansas.



## 211162 to 211571—Continued

211171 to 211176. *ANDROPOGON SCOPARIUS* Michx.

211171. No. 1. Twelve miles south of Collyer, Kansas.

211172. No. 12. Fifteen miles southwest of Gove, Kansas. Tall, leafy.

211173. No. 13. Fifteen miles southwest of Gove, Kansas.

211174. No. 29. Seven miles north of Marienthal, Kansas. Leafy.

211175. No. 106. Ten miles north of Keyes, Okla.

211176. No. 107. Ten miles north of Keyes, Okla.

211177 to 211291. *BOUTELOUA CURTIPENDULA* (Michx.) Torr. Poaceae.

211177 to 211195. From Kansas.

211177 to 211179. Twelve miles south of Collyer.

211177. No. 2.

211178. No. 4.

211179. No. 5. Tall.

211180. No. 11. Fifteen miles southwest of Gove. Tall, leafy.

211181 to 211187. Five miles north of Healy.

211181. No. 21. Leafy.

211185. No. 25. Tall, leafy.

211182. No. 22.

211186. No. 26. Medium height, leafy.

211183. No. 23. Tall, leafy.

211184. No. 24. Green in dry pasture

211187. No. 27.

211188 to 211190. Seven miles north of Marienthal.

211188. No. 31. Shallow gully. Leafy.

211189. No. 32. Tall, leafy.

211190. No. 34.

211191 and 211192. One mile east of Tribune.

211191. No. 35. Medium height, leafy.

211192. No. 36. Medium height, leafy.

211193. No. 46. Fifteen miles southwest of Tribune.

211194. No. 48. Ten miles north of Medway. Medium height, leafy.

211195. No. 56. Ten miles southwest of Syracuse. Medium height.

211196 to 211209. From Oklahoma.

211196. No. 67. Ten miles northeast of Boise City.

211197. No. 69. Ten miles northeast of Boise City. Tall.

211198. No. 78. Two miles northeast of Kenton.

211199. No. 79. Two miles northeast of Kenton.

211200. No. 80. Two miles northeast of Kenton.

211201. No. 92. Ten miles north of Boise City.

211202. No. 93. Ten miles north of Boise City.

211203 to 211206. Twelve to fifteen miles northwest of Keyes.

211203. No. 95.

211205. No. 97.

211204. No. 96.

211206. No. 98.

211207. No. 99. Ten miles north of Keyes.

211208. No. 100. Ten miles north of Keyes.

211209. No. 101. Ten miles north of Keyes.

**211162 to 211571—Continued****211177 to 211291—Continued****211210 to 211223. From Kansas.**

211210. No. 110. Eight miles southwest of Ulysses.

211211 to 211214. Twelve miles southwest of Ulysses.

211211. No. 111.

211213. No. 113.

211212. No. 112.

211214. No. 114.

211215. No. 117. Two miles south of Rush Center.

211216. No. 152. Ten miles southwest of Lake City.

211217. No. 153. Ten miles southwest of Lake City.

211218. No. 160. Five miles south of Sun City. (Natural Bridge.)

211219 to 211221. Twenty miles southeast of Coldwater.

211219. No. 166.

211220. No. 167.

211221. No. 170.

211222. No. 172. Eight miles south of Joy.

211223. No. 173. Eight miles south of Joy.

**211224 to 211234. From Oklahoma.**

211224 to 211231. Ten to fifteen miles northwest of Guymon.

211224. No. 178.

211228. No. 186.

211225. No. 179.

211229. No. 187.

211226. No. 180.

211230. No. 188.

211227. No. 185.

211231. No. 190.

211232 to 211234. Five miles west of Goodwell.

211232. No. 193.

211233. No. 194.

211234. No. 195.

**211235 to 211273. From Texas.**

211235. No. 207. Five miles south of Perico.

211236. No. 218. Five miles north of Middle Water.

211237. No. 219. Five miles northwest of Middle Water.

211238. No. 222. Six miles northwest of Middle Water.

211239. No. 225. Five miles northeast of Romero.

211240. No. 226. Five miles northeast of Romero.

211241. No. 232. Five miles west of Channing.

211242. No. 233. Five miles west of Channing.

211243. No. 253. One mile north of Bushland.

211244. No. 254. One mile north of Bushland.

211245 to 211247. Ten miles northwest of Bushland.

211245. No. 257.

211246. No. 258.

211247. No. 259.

211248. No. 263. Ten miles south of Dumas.

## 211162 to 211571—Continued

## 211177 to 211291—Continued

## 211235 to 211273—Continued

211249 to 211251. Ten miles southeast of Dumas.

211249. No. 266.

211250. No. 267.

211251. No. 268.

211252 to 211258. Two miles north of Deal.

211252. No. 275.

211256. No. 279.

211253. No. 276.

211257. No. 280.

211254. No. 277.

211258. No. 281.

211255. No. 278.

211259. No. 293. Fifteen miles east of Canyon (Palo Duro Canyon).

211260. No. 302. Five miles northeast of Canyon.

211261 to 211264. Twenty miles southwest of Goodnight.

211261. No. 307.

211263. No. 309.

211262. No. 308.

211264. No. 310.

211265. No. 315. Five miles southwest of Clarendon.

211266 to 211269. Five miles north of Glazier.

211266. No. 323.

211268. No. 325.

211267. No. 324.

211269. No. 326.

211270. No. 327. Ten miles southeast of Follett.

211271. No. 328. Five miles southeast of Follett.

211272. No. 329. Ten miles southeast of Follett.

211273. No. 330. Ten miles southeast of Follett.

211274 to 211281. Ten miles northwest of Catesby, Okla.

211274. No. 333.

211278. No. 337.

211275. No. 334.

211279. No. 338.

211276. No. 335.

211280. No. 339.

211277. No. 336.

211281. No. 340.

211282 to 211287. From Kansas.

211282. No. 341. Two miles northeast of Ashland.

211283 to 211286. Seven to ten miles northeast of Ashland.

211283. No. 342.

211285. No. 346.

211284. No. 345.

211286. No. 347.

211287. No. 367. Ten miles north of Liberal.

211288. No. 382. Four miles north of Texhoma, Okla.

211289 to 211291. From Kansas.

211289. No. 395. Ten miles south of Kismet.

211290. No. 396. Ten miles south of Kismet.

211291. No. 415. Cedar Bluff Dam.

**211162 to 211571—Continued**

**211292 to 211420.** *BOUTELOUA GRACILIS* (H. B. K.) Lag. Poaceae.

**211292 to 211311.** From Kansas.

**211292.** No. 3. Twelve miles south of Collyer.

**211293.** No. 6. Twelve miles south of Collyer.

**211294.** No. 8. Ten miles southeast of Gove.

**211295.** No. 9. Ten miles southeast of Gove.

**211296 to 211300.** Five miles north of Healy.

**211296.** No. 14. Bulk of tall  
plants.

**211298.** No. 17. Tall.

**211299.** No. 19. Tall.

**211297.** No. 15. Tall.

**211300.** No. 20.

**211301.** No. 33. Seven miles north of Marienthal.

**211302.** No. 42. Fifteen miles southwest of Tribune. Tall, leafy.

**211303.** No. 43. Fifteen miles southwest of Tribune. Tall, leafy.

**211304.** No. 47. Fifteen miles southwest of Tribune. Tall, leafy.

**211305.** No. 49. Ten miles north of Medway. Medium height, leafy.

**211306.** No. 50. Ten miles north of Medway. Tall, leafy.

**211307.** No. 57. Ten miles southwest of Syracuse.

**211308.** No. 58. Ten miles southwest of Syracuse. Tall.

**211309.** No. 62. Five miles northeast of Elkhart. Tall, leafy.

**211310.** No. 63. Five miles northeast of Elkhart. Leafy.

**211311.** No. 64. Five miles northeast of Elkhart. Tall.

**211312 to 211323.** From Oklahoma.

**211312.** No. 66. Ten miles northeast of Boise City.

**211313.** No. 75. Seventeen miles northwest of Boise City.

**211314.** No. 76. One-half mile east of Kenton. Tall.

**211315.** No. 77. One-half mile east of Kenton. Tall.

**211316 to 211319.** Two to five miles northeast of Kenton.

**211316.** No. 82.

**211318.** No. 84.

**211317.** No. 83.

**211319.** No. 85.

**211320.** No. 86. Ten miles northeast of Kenton.

**211321.** No. 87. Ten miles northeast of Kenton.

**211322.** No. 91. Fifteen miles northwest of Boise City.

**211323.** No. 103. Ten miles north of Keyes.

**211324 to 211336.** From Kansas.

**211324.** No. 108. Three miles north of Hugoton. Tall, leafy.

**211325.** No. 122. Ten miles southwest of Albert.

**211326.** No. 133. Five miles southwest of Lyons.

**211327.** No. 142. Ten miles southwest of Stafford.

**211328.** No. 146. Two miles west of Sawyer.

**211329 to 211333.** Ten miles southwest of Lake City.

**211329.** No. 154.

**211332.** No. 157.

**211330.** No. 155.

**211333.** No. 158.

**211331.** No. 156.



## 211162 to 211571—Continued

## 211292 to 211420—Continued

## 211324 to 211336—Continued

211334. No. 161. Twenty miles southeast of Coldwater.

211335. No. 162. Twenty miles southeast of Coldwater.

211336. No. 163. Twenty miles southeast of Coldwater.

## 211337 to 211344. From Oklahoma.

211337 to 211340. Ten miles northwest of Guymon.

211337. No. 181.

211339. No. 183.

211338. No. 182.

211340. No. 184.

211341. No. 191. Fifteen miles northwest of Guymon. Leafy.

211342. No. 198. Five miles west of Goodwell.

211343. No. 199. Five miles west of Goodwell.

211344. No. 200. Five miles west of Goodwell.

## 211345 to 211393. From Texas.

211345. No. 202. Ten miles southwest of Kerrick.

211346. No. 203. Ten miles northeast of Texline.

211347. No. 205. Three miles east of Texline.

211348. No. 206. Five miles south of Perico.

211349 to 211352. Eight miles west of Dalhart.

211349. No. 208. Tall, leafy.

211351. No. 210.

211350. No. 209. Tall.

211352. No. 211. Remains  
green late.

211353. No. 220. Six miles northwest of Middle Water. Tall, leafy.

211354. No. 221. Six miles northwest of Middle Water.

211355. No. 229. Six miles southeast of Romero.

211356. No. 230. Ten miles southeast of Romero.

211357. No. 231. Fifteen miles southeast of Romero.

211358. No. 235. Five miles west of Channing.

211359. No. 236. Five miles west of Channing.

211360. No. 237. Five miles west of Channing. Tall, leafy.

211361. No. 239. Five miles south of Channing. Tall, leafy.

211362. No. 240. Fifteen miles north of Vega. Tall, leafy.

## 211363 to 211369. Ten miles north of Vega.

211363. No. 241. Tall.

211367. No. 245. Tall, leafy;  
leaves wide.

211364. No. 242. Tall, leafy.

211365. No. 243. Tall, leafy.

211368. No. 246. Tall, leafy.

211366. No. 244. Tall, leafy.

211369. No. 247. Very tall.

211370. No. 255. One mile north of Bushland.

211371. No. 256. One mile north of Bushland.

211372. No. 262. Five miles north of Amarillo.

211373. No. 265. Ten miles south of Dumas. Tall.

211374. No. 270. Five miles west of Sanford.

211375. No. 274. Ten miles west of Stinnett.

## 211162 to 211571—Continued

## 211292 to 211420—Continued

## 211345 to 211393—Continued

211376. No. 284. Two miles north of Deal.

211377. No. 285. Two miles north of Deal.

211378. No. 286. Two miles north of Deal.

211379 to 211382. Fifteen miles east of Canyon (Palo Duro Canyon).

211379. No. 287.

211381. No. 289. Leafy.

211380. No. 288. Leafy.

211382. No. 290.

211383. No. 294. Twenty miles east of Canyon (Palo Duro Canyon). Tall.

211384. No. 295. Twenty miles east of Canyon (Palo Duro Canyon). Very tall plant.

211385. No. 303. Five miles northeast of Canyon. Tall.

211386. No. 304. Five miles northeast of Canyon. Tall, leafy.

211387. No. 311. Twenty miles southwest of Goodnight.

211388. No. 312. Twenty miles southwest of Goodnight.

211389. No. 313. Five miles southwest of Clarendon.

211390 to 211393. Five miles north of Glazier.

211390. No. 317.

211392. No. 319.

211391. No. 318.

211393. No. 320.

211394 to 211404. From Kansas.

211394. No. 348. Ten miles northeast of Ashland.

211395. No. 365. Ten miles southwest of Eminence.

211396. No. 366. Four miles south of Lakin.

211397 to 211404. Twelve miles northwest of Liberal.

211397. No. 368.

211401. No. 372.

211398. No. 369.

211402. No. 373.

211399. No. 370. Tall, leafy.

211403. No. 374. Tall.

211400. No. 371. Tall, leafy.

211404. No. 375.

211405. No. 383. Four miles north of Texhoma, Okla. Tall.

211406. No. 384. Four miles north of Texhoma, Okla. Tall.

211407. No. 386. Six miles southeast of Dalhart, Texas.

211408. No. 390. Ten miles south of Conlen, Texas.

211409. No. 392. Ten miles north of Sunray, Texas.

211410 to 211417. From Kansas.

211410. No. 394. Ten miles east of Liberal.

211411 to 211417. Twelve miles southwest of Meade.

211411. No. 401.

211415. No. 405.

211412. No. 402. Tall.

211416. No. 406. Tall, leafy.

211413. No. 403. Tall.

211417. No. 407. Tall.

211414. No. 404. Tall.

211418. No. 412. Five miles north of Houston, Texas.

211419. No. 413. Five miles north of Houston, Texas.

211420. No. 414. Eight miles southwest of Cordia, Kansas.

## 211162 to 211571—Continued

211421 to 211549. *BUCHLOE DACTYLOIDES* (Nutt.) Engelm. Poaceae.

211421 to 211436. From Kansas.

- 211421. No. 7. Twelve miles south of Collyer. Good seed producer.
- 211422. No. 10. Ten miles southeast of Gove. Plants tall.
- 211423. No. 16. Five miles north of Healy.
- 211424. No. 18. Five miles north of Healy.
- 211425. No. 28. Five miles north of Healy.
- 211426. No. 30. Seven miles north of Marienthal.
- 211427. No. 37. One mile east of Tribune.
- 211428. No. 38. One mile east of Tribune.
- 211429. No. 39. Ten miles southwest of Tribune.
- 211430. No. 40. Fifteen miles southwest of Tribune. Heavy seed producer.
- 211431. No. 41. Fifteen miles southwest of Tribune.
- 211432. No. 44. Fifteen miles southwest of Tribune. Good seed producer.
- 211433. No. 59. Ten miles southwest of Syracuse.
- 211434. No. 60. Eight miles northwest of Johnson.
- 211435. No. 61. Five miles southwest of Rubfield.
- 211436. No. 65. Five miles northeast of Elkhart.

211437 to 211446. From Oklahoma.

- 211437. No. 71. Three miles north of Felt. Heavy seed producer.
- 211438. No. 72. Five miles north of Felt. Heavy seed producer.
- 211439. No. 73. Five miles north of Felt. Heavy seed producer.
- 211440. No. 74. Fifteen miles west of Boise City. Good seed producer.
- 211441. No. 88. Ten miles northeast of Kenton.
- 211442. No. 89. Fifteen miles northwest of Boise City.
- 211443. No. 90. Fifteen miles northwest of Boise City.
- 211444. No. 94. Ten miles north of Boise City. Good seed producer.
- 211445. No. 104. Ten miles north of Keyes. Burrs large.
- 211446. No. 105. Ten miles north of Keyes.

211447 to 211466. From Kansas.

- 211447. No. 115. Twelve miles southwest of Ulysses.
- 211448. No. 118. Two miles south of Rush Center. Good seed producer.
- 211449. No. 119. Two miles south of Rush Center.
- 211450. No. 123. Ten miles southwest of Albert. Plants tall.
- 211451. No. 143. One-half mile west of Iuka.
- 211452. No. 144. One-half mile west of Iuka. Good seed producer.
- 211453. No. 145. One-half mile west of Iuka.

211454 to 211457. Five miles southwest of Sawyer.

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|------------------------|------------------|
| 211454. No. 147. Tall. | 211456. No. 149. |
| 211455. No. 148. Tall. | 211457. No. 150. |

## 211162 to 211571—Continued

## 211421 to 211549—Continued

## 211447 to 211466—Continued

211458. No. 151. Seven miles west of Medicine Lodge.  
 211459. No. 164. Twenty miles southeast of Coldwater.  
 211460. No. 165. Twenty miles southeast of Coldwater.  
 211461. No. 171. Five miles northwest of Coldwater.  
 211462. No. 174. Eight miles south of Joy.  
 211463. No. 175. Eight miles south of Joy.  
 211464. No. 176. Nine miles north of Guymon.  
 211465. No. 177. Ten miles northwest of Guymon. Tall.  
 211466. No. 192. Fifteen miles northwest of Guymon.  
 211467. No. 196. Five miles west of Goodwell, Okla. Good seed producer.  
 211468. No. 197. Five miles west of Goodwell, Okla. Good seed producer.  
 211469 to 211513. From Texas.  
 211469. No. 201. Ten miles northwest of Stratford.  
 211470. No. 204. Three miles east of Texline.  
 211471 to 211476. Eight miles west of Dalhart.  
 211471. No. 212. Heavy seed producer.      211474. No. 215.  
 211472. No. 213.      211475. No. 216. Heavy seed producer.  
 211473. No. 214. Heavy seed producer.      211476. No. 217.  
 211477. No. 223. Six miles northwest of Middle Water.  
 211478. No. 224. Six miles northwest of Middle Water.  
 211479. No. 227. Five miles northwest of Romero.  
 211480. No. 228. Five miles southeast of Romero.  
 211481. No. 234. Five miles west of Channing.  
 211482. No. 238. Five miles south of Channing.  
 211483. No. 248. Ten miles north of Vega. Seed borne high.  
 211484. No. 249. Ten miles north of Vega.  
 211485. No. 250. One mile north of Bushland.  
 211486. No. 251. One mile north of Bushland.  
 211487. No. 252. One mile north of Bushland.  
 211488. No. 260. Five miles west of Amarillo.  
 211489. No. 261. Five miles north of Amarillo.  
 211490. No. 264. Ten miles south of Dumas.  
 211491. No. 269. Ten miles southeast of Dumas.  
 211492. No. 271. Five miles west of Sanford.  
 211493. No. 272. Ten miles west of Stinnett. Good seed producer.  
 211494. No. 273. Ten miles west of Stinnett. Tall plant.  
 211495. No. 282. Two miles north of Deal.  
 211496. No. 283. Two miles north of Deal.



**211162 to 211571—Continued****211421 to 211549—Continued****211469 to 211513—Continued**

211497. No. 291. Fifteen miles east of Canyon (Palo Duro Canyon). Tall.
211498. No. 292. Fifteen miles east of Canyon (Palo Duro Canyon). Tall.
211499. No. 296. Twenty miles east of Canyon (Palo Duro Canyon).
211500. No. 297. Twenty miles east of Canyon (Palo Duro Canyon). Tall.
211501. No. 298. Twenty miles east of Canyon (Palo Duro Canyon). Very tall.
211502. No. 299. Eight miles east of Canyon.
211503. No. 300. Five miles northeast of Canyon. Exceptionally heavy seed producer.
211504. No. 301. Five miles northeast of Canyon.
211505. No. 305. Five miles south of Claude.
211506. No. 306. Twenty miles southwest of Goodnight.
211507. No. 314. Five miles southwest of Clarendon.
211508. No. 316. Ten miles northwest of Miami.
211509. No. 321. Five miles north of Glazier.
211510. No. 322. Five miles north of Glazier.
211511. No. 332. Five miles northeast of Follett.
211512. No. 343. Ten miles northeast of Ashland. Good seed producer.
211513. No. 344. Ten miles northeast of Ashland. Good seed producer.

**211514 to 211535. From Kansas.****211514 to 211519. Four miles north of Beeler.**

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|--------------------------------------|-----------------------------|
| 211514. No. 349. Good seed producer. | 211517. No. 352. Tall.      |
| 211515. No. 350. Good seed producer. | 211518. No. 353.            |
| 211516. No. 351.                     | 211519. Good seed producer. |

**211520 to 211529. Ten miles southwest of Eminence.**

211520. No. 355. Tall. Good seed producer.
211521. No. 356. Good seed producer.
211522. No. 357. Good seed producer.
211523. No. 358. Heavy seed producer.
211524. No. 359. Heavy seed producer.
211525. No. 360.
211526. No. 361. Good seed producer.
211527. No. 362. Good seed producer.
211528. No. 363. Burrs large.
211529. No. 364. Heavy seed producer.

**211162 to 211571—Continued****211421 to 211549—Continued****211514 to 211535—Continued**

211530 to 211535. Twelve miles northwest of Liberal.

211530. No. 376.

211533. No. 379.

211531. No. 377.

211534. No. 380. Heavy  
seed producer.

211532. No. 378. Good  
seed producer.

211535. No. 381.

**211536 to 211540. From Texas.**

211536. No. 385. Five miles southeast of Dalhart.

211537. No. 387. Fifteen miles southeast of Dalhart.

211538. No. 388. One mile northeast of Exum. Heavy seed producer.

211539. No. 389. One mile northeast of Exum. Heavy seed producer.

211540. No. 391. Ten miles south of Conlen.

**211541 to 211549. From Kansas.**

211541. No. 393. One mile northeast of Liberal.

211542 to 211545. Twelve miles southwest of Meade.

211542. No. 397.

211544. No. 399.

211543. No. 398. Good seed  
producer.

211545. No. 400.

211546. No. 408. Fifteen miles southwest of Meade.

211547. No. 409. Ten miles north of Fowler.

211548. No. 410. Five miles north of Hanston.

211549. No. 411. Five miles north of Hanston. Good seed producer.

**211550 to 211556. ERAGROSTIS TRICHODES (Nutt.) Wood. Poaceae.**

From Kansas.

211550. No. 129. Five miles southeast of Great Bend.

211551. No. 130. Five miles southeast of Great Bend.

211552. No. 134. Five miles southwest of Alden.

211553. No. 135. Five miles southwest of Alden.

211554. No. 136. Five miles southwest of Alden.

211555. No. 139. Ten miles southwest of Stafford.

211556. No. 140. Ten miles southwest of Stafford.

**211557 to 211562. PANICUM VIRGATUM L. Poaceae.**

From Kansas.

211557. No. 45. Fifteen miles southwest of Tribune. Medium height,  
leafy.

211558. No. 52. Ten miles north of Medway.

211559. No. 54. Three miles west of Syracuse. Tall, leafy.

211560. No. 137. Five miles southwest of Alden.

211561. No. 141. Ten miles southwest of Stafford. Leafy.

211562. No. 168. Twenty miles southeast of Coldwater. Fine stems,  
leafy.

## 211162 to 211571—Continued

211563 to 211571. *SORGHASTRUM NUTANS* (L.) Nash. Poaceae.

From Kansas.

211563. No. 51. Ten miles north of Medway.

211564. No. 55. Five miles southwest of Syracuse.

211565 to 211568. Ten miles west of Great Bend.

211565. No. 124.

211567. No. 126.

211566. No. 125.

211568. No. 127.

211569. No. 138. Five miles southwest of Alden.

211570. No. 169. Twenty miles southeast of Coldwater.

211571. No. 159. Ten miles southwest of Lake City. Leafy.

211572. *TRITICUM AESTIVUM* L. Poaceae. **Common wheat.**From Missouri. Seeds presented by the University of Missouri, Columbia.  
Received Dec. 16, 1953. Originally from France.*Osiris.*

## 211573 to 211642.

From Afghanistan. Seeds collected by H. S. Gentry, Agricultural Explorer,  
Bureau of Plant Industry, Soils, and Agricultural Engineering, Belts-  
ville, Md. Received Dec. 15, 1953.

Collected in 1953.

211573. *ABELMOSCHUS ESCULENTUS* (L.) Moench. Malvaceae. **Okra.**  
No. 12751. Baghlan, Kataghan Province. Oct. 11.211574 and 211575. *ALLIUM CEPA* L. Liliaceae. **Onion.**

211574. No. 12767. Market, Faizabad, Badakhshan Province. Oct. 13.

211575. No. 13025. Market, Kandahar. Nov. 6. Bulb purple.

211576 and 211577. *ALLIUM PORRUM* L. **Leek.**

211576. No. 12978. Market, Herat, Herat Province. Nov. 3.

211577. No. 12997. Girishk, Kandahar Province. Nov. 6.

211578. *ALLIUM SATIVUM* L. **Garlic.**

No. 12872. Market, Mazar-i-Sharif. Oct. 20.

211579. *ANGELICA* sp. Apiaceae.No. 12779. Market, Faizabad, Badakhshan Province. Oct. 13. Used  
medicinally.211580. *BROMUS OXYODON* Schrenk. Poaceae.No. 12914. Twelve miles southwest of Maimana, Maimana Province.  
Oct. 28. Annual.211581. *BRASSICA OLERACEA* var. *CAPITATA* L. Brassicaceae. **Cabbage.**

No. 12966. Market, Herat, Herat Province. Nov. 3.

211582 to 211584. *BRASSICA RAPA* L. **Turnip.**

211582. No. 12874. Market, Mazar-i-Sharif. Oct. 20. Purple.

211583. No. 12895. Market, Mazar-i-Sharif. Oct. 20. Roots purple.

211584. No. 12995. Girishk, Kandahar Province. Nov. 6. Roots whitish.

211585. *CANNABIS SATIVA* L. Moraceae. **Hemp.**

No. 13026. Market, Kandahar. Nov. 6.

**211573 to 211642—Continued**

211586. *CELOSIA* sp. *Amaranthaceae*. **Cockscomb.**  
No. 12832. Khanabad, Kataghan Province. Oct. 17.
211587. *CORIANDRUM SATIVUM* L. *Apiaceae*. **Coriander.**  
No. 13005. Girishk, Kandahar Province. Nov. 6.
211588. *CUCUMIS MELO* var. *INODORUS* Naud. *Cucurbitaceae*.  
No. 12992. Herat, Herat Province. November. Large melon with thick salmon-colored flesh.
211589. *CUCUMIS SATIVUS* L. **Cucumber.**  
No. 12960. Market, Herat, Herat Province. Nov. 1.
- 211590 to 211592. *DAUCUS CAROTA* L. *Apiaceae*. **Carrot.**  
211590. No. 12770. Market, Faizabad, Badakhshan Province. Oct. 13.  
Root up to 2 inches in diameter, 8 to 10 inches long.
211591. No. 12894. Market, Mazar-i-Sharif. Oct. 20.
211592. No. 12963. Market, Herat, Herat Province. Nov. 2. Roots purple.
211593. *GOSSYPIUM*. *Malvaceae*. **Cotton.**  
No. 12983. Market, Farah, Farah Province. Nov. 4. Closed-boll cotton.
211594. *HIBISCUS CANNABINUS* L. *Malvaceae*. **Kenaf.**  
No. 13008. Nad-i-Ali, Kandahar Province. Nov. 6.
211595. *HORDEUM* sp. *Poaceae*. **Barley.**  
No. 12773. Market, Faizabad, Badakhshan Province. Oct. 13. Spring sown.
211596. *HORDEUM* sp.  
No. 12926. Galeh Nau, Herat Province. Oct. 29.
211597. *HORDEUM* sp.  
No. 12933. Herat, Herat Province. Nov. 1.
211598. *HORDEUM* sp.  
No. 12986. Market, Farah, Farah Province. Nov. 4. Spring sown.
211599. *JUGLANS NIGRA* L. *Juglandaceae*. **Black walnut.**  
No. 13032. Market, Kandahar. Nov. 6.
- 211600 and 211601. *LACTUCA SATIVA* L. *Cichoriaceae*. **Lettuce.**  
211600. No. 12771. Market, Faizabad, Badakhshan Province. Oct. 13.  
211601. No. 12964. Market, Herat, Herat Province. Nov. 3.
211602. *LENS CULINARIS* Medic. *Fabaceae*. **Lentil.**  
No. 12984. Market, Farah, Farah Province. Nov. 4.
211603. *LEPIDIUM SATIVUM* L. *Brassicaceae*. **Garden cress.**  
No. 12996. Girishk, Kandahar Province. Nov. 6.
211604. *LUFFA ACUTANGULA* (L.) Roxb. *Cucurbitaceae*. **Singkwa towelgourd.**  
No. 12782. Market, Faizabad, Badakhshan Province. Oct. 13.
211605. *MEDICAGO LUPULINA* L. *Fabaceae*. **Black medic.**  
No. 12705. Bamian. Oct. 7. Small procumbent annual with small yellow flowers; fruits early and abundantly.



## 211573 to 211642—Continued

- 211606 to 211610. *MEDICAGO SATIVA* L. Alfalfa.  
 211606. No. 13024. Market, Kandahar, Nov. 6.  
 211607. No. 12893. Market, Mazar-i-Sharif. Oct. 20.  
 211608. No. 12976. Market, Herat, Herat Province. Nov. 3.  
 211609. No. 12991. Market, Farah, Farah Province. Nov. 4.  
 211610. No. 12998. Girishk, Kandahar Province. Nov. 6.
211611. *MELILOTUS ALBA* Desr. Fabaceae. White sweetclover.  
 No. 13011. Nad-i-Ali, Kandahar Province. Nov. 6.
- 211612 to 211615. *PHASEOLUS AUREUS* Roxb. Fabaceae. Mung bean.  
 211612. No. 12928. Galeh Nau, Herat Province. Oct. 29.  
 211613. No. 12982. Market, Farah, Farah Province. Nov. 4.  
 211614. No. 13004. Girishk, Kandahar Province. Nov. 6.  
 211615. No. 13028. Market, Kandahar. Nov. 6.
211616. *PISTACIA* sp. Anacardiaceae.  
 No. 12980. Market, Farah, Farah Province. Nov. 4.
- 211617 and 211618. *PRUNUS AMYGDALUS* Batsch. Amygdalaceae. Almond.  
 211617. No. 13027. Market, Kandahar. Nov. 6. Mostly thin shelled.  
 211618. No. 13031. Market, Kandahar. Nov. 6.
- 211619 to 211621. *PRUNUS ARMENIACA* L. Apricot.  
 211619. No. 13000. Girishk, Kandahar Province. Nov. 3.  
 211620. No. 13007. Market, Girishk, Kandahar Province. Nov. 6.  
 211621. No. 13029. Market, Kandahar. Nov. 6.
211622. *PRUNUS CERASIFERA* Ehrh. Myrobalan plum.  
 No. 12988. Market, Farah, Farah Province. Nov. 4.
211623. *PRUNUS DOMESTICA* L. Common plum.  
 No. 13014. Market, Kandahar, Kandahar Province. Nov. 6.
211624. *PRUNUS* sp.  
 No. 12987. Market, Farah, Farah Province. Nov. 4.
211625. *RAPHANUS SATIVUS* L. Brassicaceae. Radish.  
 No. 12999. Girishk, Kandahar Province. Nov. 6.
211626. *RUBUS* sp. Rosaceae.  
 No. 12808. Near Faizabad, Badakhshan Province. Oct. 14. Wild, fruits sweet and small, blackberry type.
- 211627 to 211630. *SESAMUM INDICUM* L. Pedaliaceae. Sesame.  
 211627. No. 12879. Market, Mazar-i-Sharif. Oct. 20.  
 211628. No. 12962. Market, Herat, Herat Province. Nov. 3.  
 211629. No. 12989. Market, Farah, Farah Province. Nov. 4.  
 211630. No. 13023. Market, Kandahar. Nov. 6.
211631. *SOLANUM MELONGENA* L. Solanaceae. Eggplant.  
 No. 12967. Market, Herat, Herat Province. Nov. 3.
211632. *SPINACEA OLERACEA* L. Chenopodiaceae. Spinach.  
 No. 13002. Girishk, Kandahar Province. Nov. 6.

**211573 to 211642—Continued**211633. *SORGHUM* sp. Poaceae.

No. 13009. Nad-i-Ali, Kandahar Province. Nov. 6.

211634. *TRIFOLIUM RESUPINATUM* L. Fabaceae.

Persian clover.

No. 12990. Market, Farah, Farah Province. Nov. 4.

211635 and 211636. *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae.

Fenugreek.

211635. No. 13019. Market, Kandahar. Nov. 6.

211636. No. 13006. Girishk, Kandahar Province. Nov. 6. Cooked and eaten with rice.

211637 to 211639. *TRITICUM AESTIVUM* L. Poaceae.

Common wheat.

211637. No. 12985. Market, Farah, Farah Province. Nov. 4.

211638. No. 13010. Dasht-i-Margo, Farah Province. Nov. 6.

211639. No. 13013. Girishk, Kandahar Province. Nov. 6.

211640. *VICIA FABA* L. Fabaceae.

Broadbean.

No. 13020. Market, Kandahar. Nov. 6.

211641 and 211642. *VIGNA SINENSIS* (Torner) Savi. Fabaceae. Cowpea.

211641. No. 12981. Market, Farah, Farah Province. Nov. 4.

211642. No. 13001. Girishk, Kandahar Province. Nov. 6.

**211643 to 211705.**

From Turkey. Seeds presented by the Department of Agriculture, Ankara. Received Dec. 15, 1953.

211643. *TRITICUM*. Poaceae.

No. 21-011.

211644 to 211686. *TRITICUM AESTIVUM* L.

Common wheat.

211644. No. 111-33. *Compactum*  
*Pseudo-Rubriceps*.211658. No. 1167-1. *Lutescens*.211659. No. 1256-1. *Albidum*.211645. No. 220-39. *Delfi*.211660. No. 1257. *Leucospermum*211646. No. Mo. 93-44.  
*Erythroleucon*.211661. No. 1265-1.  
*Erythrospermum*.211647. No. 1020-1. *Græcum*.211662. No. 1271. *Erythroleucon*.211648. No. 1027. *Erythroleucon*.211663. No. 1272-1. *Albidum*.211649. No. 1030-1.  
*Erythroleucon*.211664. No. 1432-1.  
*Erythrospermum*.211650. No. 1075-1.  
*Erythroleucon*.211665. No. 1463. *Compactum*  
*Sericeum*.211651. No. 1084-1. *Delfi*.211666. No. 1464. *Delfi*.211652. No. 1117-1.  
*Ferrugineum*.211667. No. 1467. *Græcum*.211653. No. 1121-1. *Leucurum*.211668. No. 1473. *Orientale*  
*Notabile*.211654. No. 1130. *Africanum*.211669. No. 1482. *Compactum*  
*Rubriceps*.211655. No. 1136. *Delfi*.211656. No. 1152-1. *Compactum*  
*Erinæum*.211670. No. 1486. *Leucospermum*

211671. 134.

211657. No. 1167.  
*Erythrospermum*.211672. *Sambugdayl* 133.

## 211643 to 211705—Continued

## 211644 to 211686—Continued

211673. <i>Kilciksis Mana</i> 97.	211680. 24698.
211674. <i>Akova</i> 17.	211681. 24984.
211675. <i>Yazlik</i> 118.	211682. 23526.
211676. 447.	211683. <i>AK</i> 702.
211677. 1133.	211684. <i>Sertak</i> 52.
211678. 21432.	211685. <i>Yayla</i> 305.
211679. 24218.	211686. <i>Melez</i> 13.

## 211687 to 211704. TRITICUM DURUM Desf.

Durum wheat.

211687. 253-29. <i>Leucurum</i> .	211696. 1278-1. <i>Leucurum</i> .
211688. 173-39. <i>Hordeiforme</i> .	211697. 1279-1. <i>Melanopsus</i> .
211689. 1101. <i>Leucurum</i> .	211698. 1293-1. <i>Hordeiforme</i> .
211690. 1101-1. <i>Melanopsus</i> .	211699. 1295-1. <i>Hordeiforme</i> .
211691. 1110. <i>Melanopsus</i> .	211700. 1299. <i>Coerulescens</i> .
211692. 1195-1. <i>Apulicum</i> .	211701. 1413-1. <i>Hordeiforme</i> .
211693. 1253-1. <i>Reichenbachii</i> .	211702. 1308. <i>Obscurum</i> .
211694. 1255-1. <i>Leucomelan</i> .	211703. 1449-1. <i>Coerulescens</i> .
211695. 1264-1. <i>Affine</i> .	211704. 1459-1. <i>Hordeiforme</i> .

## 211705. TRITICUM TURGIDUM L.

Poulard wheat.

1024-1. *Frisco Miscible*.

## 211706. TRITICUM AESTIVUM L. Poaceae.

Common wheat.

From England. Seeds presented by the Plant Breeding Institute, Cambridge, England. Originally from Russia. Received Dec. 16, 1953.

*Timococcum*.

## 211707. TRITICUM AESTIVUM L. Poaceae.

Common wheat.

From Argentina. Seeds presented by Jose Vallega, Castelar. Received Dec. 16, 1953.

*D.I.V.* 5. 065.

## 211708. TRITICUM DURUM Desf. Poaceae.

Durum wheat.

From Montana. Seeds presented by the Montana Agricultural Experiment Station, Bozeman. Received Dec. 16, 1953.

Originally from Egypt.

## 211709 to 211714.

From the Netherlands. Seeds presented by Kweekbedrijf C.I.V. Ottersum. Received Dec. 16, 1953.

## 211709 and 211710. AVENA SATIVA L. Poaceae.

Oats.

211709. *C.I.V.* 229.211710. *C.I.V.* 350.

## 211711 to 211714. SECALE CEREALE L. Poaceae.

Rye.

211711. *C.I.V.* L.211713. *C.I.V.* 111.211712. *C.I.V.* 11.211714. *C.I.V.* IV.

**211715 to 211717.**

From Taiwan. Seeds presented by the Provincial Industrial Research Institute, Taipei. Received Dec. 16, 1953.

**211715.** OCIMUM GRATISSIMUM L. Menthaceae.

**211716.** ORTHODON sp. Menthaceae.

Received as *O. carvoniferum*, an apparently unpublished name.

**211717.** ORTHODON sp.

Received as *O. linalooliferum*, an apparently unpublished name.

**211718 to 211760.**

From Afghanistan. Seeds collected by H. S. Gentry, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Dec. 16, 1953.

Collected in 1953.

**211718.** BRASSICA OLERACEA var. CAPITATA L. Brassicaceae. **Cabbage.**

No. 12965. Market, Herat, Herat Province. Nov. 3.

**211719 and 211720.** BRASSICA RAPA L. **Turnip.**

**211719.** No. 12943. Market, Herat, Herat Province. Nov. 1. Root white.

**211720.** No. 12954. Market, Herat, Herat Province. Nov. 1.

**211721.** CANNABIS SATIVUS L. Moraceae. **Hemp.**

No. 12935. Market, Herat, Herat Province. Nov. 1.

**211722.** CICER ARIETINUM L. Fabaceae. **Chickpea.**

No. 12946. Market, Herat, Herat Province. Nov. 1. Very small seeds.

**211723 and 211724.** CORIANDRUM SATIVUM L. Apiaceae. **Coriander.**

**211723.** No. 12876. Market, Mazar-i-Sharif. Oct. 20.

**211724.** No. 12958. Market, Herat, Herat Province. Nov. 1.

**211725 to 211727.** CUCUMIS MELO L. Cucurbitaceae. **Muskmelon.**

**211725.** No. 12766. Taliabad, Kataghan. Oct. 11. Large, yellowish-green, smooth winter melon with firm white flesh.

**211726.** No. 12903. Shadian Desert, Mazar-i-Sharif Province. Oct. 21. Large, yellowish, green brindled melon with thick, firm, whitish, sweet flesh.

**211727.** No. 12907. Baghlan, Kataghan. Oct. 23. Oblong, wrinkled, green-yellow melon with thick, firm, whitish flesh.

**211728.** CUCUMIS SATIVUS L. **Cucumber.**

No. 12775. Market, Faizabad, Badakhshan Province. Oct. 13.

**211729.** ELETARIA CARDAMOMUM (L.) Maton. Zingiberaceae.

No. 12885. Market, Mazar-i-Sharif. Oct. 20.

**211730.** HORDEUM sp. Poaceae. **Barley.**

No. 12873. Market, Mazar-i-Sharif. Oct. 20. Spring barley.

**211731.** HORDEUM sp.

No. 12909. Kachori, Maimana. Oct. 24. Mixed types.

**211732.** LENS CULINARIS Medic. Fabaceae. **Lentil.**

No. 12944. Market, Herat, Herat Province. Nov. 1.

**211733.** LINUM USITATISSIMUM L. Linaceae. **Flax.**

No. 12942. Market, Herat, Herat Province. Nov. 1. Grown for oil.



## 211718 to 211760—Continued

211734. *LUFFA ACUTANGULA* (L.) Roxb. Cucurbitaceae. Singkwa towelgourd.  
No. 12912. Maimana, Maimana Province. Oct. 27.
- 211735 to 211737. *PHASEOLUS AUREUS* Roxb. Fabaceae. Mung bean.  
211735. No. 12769. Market, Faizabad, Badakhshan. Oct. 13.  
211736. No. 12877. Market, Mazar-i-Sharif. Oct. 20.  
211737. No. 12947. Market, Herat, Herat Province. Nov. 1.
211738. *PRUNUS AMYGDALUS* Batsch. Amygdalaceae. Almond.  
No. 12899. Market, Mazar-i-Sharif. Oct. 20.
211739. *PRUNUS ARMENIACA* L. Apricot.  
No. 12945. Market, Herat, Herat Province. Nov. 1.
211740. *PRUNUS AMYGDALUS* Batsch. Almond.  
No. 13066. Market, Ghazni, Kabul Province. Nov. 8.
- 211741 and 211742. *PRUNUS ARMENIACA* L. Apricot.  
211741. No. 12871. Market, Mazar-i-Sharif. Oct. 20.  
211742. No. 12937. Market, Herat, Herat Province. Nov. 1.
211743. *PRUNUS DOMESTICA* L. Common plum.  
No. 12936. Market, Herat, Herat Province. Nov. 1. Fruits small, dark blue.
- 211744 and 211745. *RAPHANUS SATIVUS* L. Brassicaceae. Radish.  
211744. No. 12896. Market, Mazar-i-Sharif. Oct. 20.  
211745. No. 12968. Market, Herat, Herat Province. Nov. 3.
211746. *SESAMUM INDICUM* L. Pedaliaceae. Sesame.  
No. 12906. Twelve miles northwest of Shibarghan, Mazar-i-Sharif. Oct. 23.
211747. *SORGHUM* sp. Poaceae.  
No. 12866. Mazar-i-Sharif, Mazar-i-Sharif Province. Oct. 19. A sorghum millet with thick, nearly leafless stalks used for making brooms.
- 211748 to 211751. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.  
211748. No. 12887. Market, Mazar-i-Sharif. Oct. 20. Spring wheat.  
211749. No. 12921. Market, Bala Murghab, Herat. Oct. 28.  
211750. No. 12927. Galeh Nau, Herat. Oct. 29.  
211751. No. 12971. Market, Herat, Herat Province. Nov. 3. Winter wheat.
211752. *VICIA FABA* L. Fabaceae. Broadbean.  
No. 12934. Market, Herat, Herat Province. Nov. 1.
- 211753 to 211756. *VIGNA SINENSIS* (Torner) Savi. Fabaceae. Cowpea.  
211753. No. 12889. Market, Mazar-i-Sharif. Oct. 21.  
211754. No. 12901. Shibarghan, Mazar-i-Sharif. Oct. 21.  
211755. No. 12924. Galeh Nau, Herat. Oct. 29.  
211756. No. 12938. Market, Herat, Herat Province. Nov. 1, 1953.
211757. *ZEA MAYS* L. Poaceae. Corn.  
No. 12897. Market, Mazar-i-Sharif. Oct. 20.

**211718 to 211760—Continued**

- 211758 to 211760. ZIZIPHUS JUJUBA Mill. Rhamnaceae. Jujube.  
 211758. No. 12939. Market, Herat, Herat Province. Nov. 1.  
 211759. No. 12940. Market, Herat, Herat Province. Nov. 1.  
 211760. No. 13030. Market, Kandahar. Nov. 6.

**211761 to 211788.**

From Italy. Seeds presented by R. O. Whyte, FAO Headquarters, Rome.  
 Received Dec. 17, 1953.

Localities given are original sources.

211761. AGROPYRON ELONGATUM (Host) Beauv. Poaceae. Grass.  
 UMN 665. Nve-Yaar, Israel.  
 211762. AGROSTIS TENUIS Sibth. Poaceae.  
 UMN 676. New Zealand.  
 211763. BROMUS CATHARTICUS Vahl. Poaceae.  
 UMN 648. Nve-Yaar, Israel.  
 211764. CYNOSURUS CRISTATUS L. Poaceae. Crested dogtail.  
 UMN 670. New Zealand.  
 211765. DACTYLIS GLOMERATA L. Poaceae. Orchard grass.  
 UMN 667. New Zealand.  
 211766 and 211767. FESTUCA ARUNDINACEA Schreb. Poaceae. Tall fescue.  
 211766. UMN 660. Nve-Yaar, Israel.  
 211767. UMN 661. Nve-Yaar, Israel.  
 211768. FESTUCA RUBRA L. Red fescue.  
 UMN 675. New Zealand.  
 211769 to 211771. LOLIUM MULTIFLORUM Lam. Poaceae. Italian ryegrass.  
 211769. UMN 643. Nve-Yaar, Israel.  
 211770. UMN 672. New Zealand.  
 211771. UMN 666. Nve-Yaar, Israel. Received as var. *westerwoldicum*,  
 an apparently unpublished name.  
 211772 and 211773. LOLIUM PERENNE L. Perennial ryegrass.  
 211772. UMN 647. Nve-Yaar, Israel.  
 211773. UMN 669. Nve-Yaar, Israel.  
 211774. LOLIUM. (*L. perenne* × *multiflorum*.)  
 UMN 679. New Zealand.  
 211775. LOTUS ULIGINOSUS Schkuhr. Fabaceae. Big trefoil.  
 UMN 673. New Zealand.  
 211776 and 211777. MEDICAGO SATIVA L. Fabaceae. Alfalfa.  
 211776. UMN 662. Nve-Yaar, Israel.  
 211777. UMN 663. Nve-Yaar, Israel.  
 211778. ORYZOPSIS COERULESCENS (Desf.) Hack. Poaceae.  
 UMN 659. Nve-Yaar, Israel.  
 211779. ORYZOPSIS HOLCIFORMIS (Bieb.) Hack.  
 UMN 646. Nve-Yaar, Israel.

## 211761 to 211788—Continued

211780 and 211781. *ORYZOPSIS MILIACEA* (L.) Benth. & Hook.

211780. UMN 658. Nve-Yaar, Israel.

211781. UMN 636. Nve-Yaar, Israel.

211782. *PHALARIS TUBEROSA* L. Poaceae.

Large canary grass.

UMN 657. Nve-Yaar, Israel.

211783. *PHLEUM PRATENSE* L. Poaceae.

Timothy.

UMN 668. New Zealand.

211784 and 211785. *TRIFOLIUM PRATENSE* L. Fabaceae.

Red clover.

211784. UMN 671. New Zealand.

211785. UMN 677. New Zealand.

211786. *TRIFOLIUM REPENS* L.

White clover.

UMN 674. New Zealand.

211787 and 211788. *TRIFOLIUM SUBTERRANEUM* L.

Subterranean clover.

211787. UMN 678. New Zealand.

211788. UMN 680. New Zealand.

211789 to 211793. *FRAGARIA*. Rosaceae.

Strawberry.

From France. Plants presented by the Pépinières Georges Delbard, Malicorne. Received Dec. 18, 1953.

211789. *Docteur Morere*.211792. *Tardive de Leopold*.211790. *Hercule*.211793. *Vicomtesse Hericant*211791. *Saint Jean*.*Thury*.211794 to 211826. *VITIS VINIFERA* L. Vitaceae. European grape.

From Japan. Cuttings presented by K. Shimzu, Fujimatsu Hekkai near Nagaya. Received Dec. 21, 1953.

211794. No. 201. *Syari*.211811. No. 254. *Large Fall (B)*.211795. No. 202. *Large Fall*.211812. No. 259. *Ouinoue #14*.211796. No. 203. *Takasago*.211813. No. 266. *Kougiyoku*.211797. No. 204. *Kyohou*.211814. No. 265. *Neo. Muscat*.211798. No. 208. *K<sub>2</sub>C-292*.211815. No. 269. *Heiwa (peace)*.211799. No. 211. *Kahou*.211816. No. 270. *Rose Queen*.211800. No. 212. *Koushiu-Sanjaku*.211817. No. 271. *Yodoshi-wase*.211801. No. 217. *Golden Baily*.211818. No. 281. *Baily Alicant*.211802. No. 218. *Large Fall*.211819. No. 284. *Akashi*.211803. No. 220. *Baily Alicant A*.211820. No. 287. *Muscat Baily (B)*.211804. No. 231. *Muscat Baily A*.211821. No. 289. *Great Chasselas*.211805. No. 236. *Koushiu ×  
Xabalkanski*.211822. No. 292. *Muscat Angel*.211806. No. 239. *Red Millenium*.211823. No. 293. *Red Tokay*.211807. No. 240. *Red Palestine*.211824. No. 294. *Kawakami #3*.211808. No. 242. *Koukou*.211825. No. 299. *Benikawachi*.211809. No. 247. *Rose Cioutat*.211826. No. 300. *D<sub>2</sub>K 151*.211810. No. 251. *Kyosin*.

**211827. (Undetermined.)**

From Afghanistan. Rhizomes collected by H. S. Gentry, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Dec. 21, 1953.

No. 13113.

**211828. LOLIUM MULTIFLORUM (Lam.)****Italian ryegrass.**

From Uruguay. Seeds presented by the Seccion Fomento Y Defensa Agricola, Montevideo. Received Dec. 21, 1953.

**211829 to 211835.**

From Chile. Tubers collected by Earl E. Smith, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Dec. 21, 1953.

**211829. DIOSCOREA sp. Dioscoreaceae.**

No. 51. Road to Baños de San Fernando, 19 miles beyond Puente Negro. Nov. 25, 1953.

**211830. DIOSCOREA sp.**

No. 65. Thirty-two miles toward Leguna Maule from Talca, Talca Province. Nov. 28, 1953.

**211831. DIOSCOREA sp.**

No. 68. Mouth of Rio Bío-Bío, Concepción Province. Nov. 30, 1953.

**211832. DIOSCOREA sp.**

No. 74. Between Lota and Laraguete, Concepción Province. Dec. 1, 1953.

**211833. DIOSCOREA AURICULATA Poepp.**

No. 75. Rio de las Cruces, Laraguete, Concepción Province. Dec. 1, 1953.

**211834. DIOSCOREA sp.**

No. 77. Nonguén, near Concepción, Concepción Province. Dec. 3, 1953.

**211835. DIOSCOREA sp.**

No. 78. Nonguén, near Concepción, Concepción Province. Dec. 3, 1953.

**211836. PRUNUS AMYGDALUS Batsch. Amygdalaceae. Almond.**

From Portugal. Budsticks presented by Carlos R. Marques De Almeida, Cadeira de Ampelografia e Viticulture, Lisbon. Received Dec. 21, 1953.

*Domo Italiano.*

**211837. PRUNUS PERSICA (L.) Batsch. Amygdalaceae. Peach.**

From Maryland. Tree growing at the United States Plant Introduction Garden, Glenn Dale. Received in August 1949; numbered Dec. 21, 1953.

*Vainqueur.* Originally from Sydney, New South Wales, Australia.

**211838 to 211840. LYCOPERSICON PIMPINELLIFOLIUM (Jusl.) Miller. Solanaceae.**

From Peru. Seeds presented by A. F. Swanson, Agricultural Advisor, Foreign Agricultural Service, United States Department of Agriculture, Washington, D.C. Received Dec. 22, 1953.

Collected in the Province of Trujillo. Said to be highly resistant to nematodes and wilt. Fruits very small.

211838. No. 1.

211839. No. 2.

211840. No. 3.



**211841 and 211842.**

From India. Collected by H. S. Gentry, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Dec. 23, 1953.

211841. *FRAGARIA*. Rosaceae.

Strawberry.

No. 13295. (Plants.)

211842. *CISSUS QUADRANGULARIS* L. Vitaceae.

No. 13151. Poona, Bombay. Dec. 8, 1953. Perennial. Stems boiled and extract used as a potion in curing tuberculosis. (Cuttings.)

**211843 to 211847.**

From England. Plants presented by Hillier & Sons, Winchester. Received Dec. 23, 1953.

211843 to 211846. *CAMELLIA JAPONICA* L. Theaceae.

211843. *Alba Simplex*.

211845. *Jupiter*.

211844. *Donation*.

211846. *J. C. Williams*.

211847. *VIBURNUM OPULUS* L. Caprifoliaceae. European cranberrybush. *Compactum*.

**211848. *BEGONIA* sp. Begoniaceae.**

From Missouri. Seeds presented by the Missouri Botanic Gardens, St. Louis. Received Dec. 28, 1953.

Originally from Venezuela.

*B7-53-21*.

**211849 to 211855.**

Watermelon.

From Iran. Seeds presented by the Agricultural Attaché, American Embassy, Tehran. Received Dec. 28, 1953.

211849 to 211852. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae.

211849. No. 1.

211851. No. 3.

211850. No. 2.

211852. No. 4.

211853 to 211855. *CUCUMIS MELO* L. Cucurbitaceae.

Muskmelon.

211853. No. 5. Cream-colored flesh.

211854. No. 6. Green flesh.

211855. No. 7.

**211856. *BROMUS VALDIVIANUS* R. A. Phil. Poaceae.**

From Chile. Seeds presented by the Ministerio de Agricultura, Santiago. Received Dec. 28, 1953.

**211857 to 211863.**

From Chile. Collected by Earl E. Smith, Agricultural Explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Md. Received Dec. 29, 1953.

211857. *DIOSCOREA* sp. Dioscoreaceae.

No. 89. Vegas Blancas, Sierra del Nahuelbuta, Angol, Malleco Province. Dec. 7, 1953. (Roots.)

211858. *EPIPETRUM HUMILE* (Bert.) Phil. Dioscoreaceae.

No. 91. Coronel, Concepción, Concepción Province. Dec. 10, 1953. (Tubers.)

**211857 to 211863—Continued**211859. *DIOSCOREA* sp. Dioscoreace.

No. 93. Cerro Bismark, Concepción, Concepción Province. Dec. 11, 1953. (Tubers.)

211860 and 211861. *AMARYLLIS BICOLOR* Ruiz & Pav. Amaryllidaceae.

Near Coronel, Concepción, Concepción Province. Dec. 10, 1953.

211860. No. 90. Red-flowered phase. (Bulbs.)

211861. No. 90. Yellow-flowered phase.

211862. *AMARYLLIS* sp.

No. 84. On the road from Angol, between Chanleo and San Ramón Vegas Blancas, in the Sierra del Nahuelbuta, Malleco Province. Dec. 6, 1953. Red flowers. (Bulbs.)

211863. *SOLANUM TUBEROSUM* Lindl. Solanaceae.

Potato.

No. 92. Vegas Blancas, Sierra del Nahuelbuta, Angol, Malleco Province. Dec. 7, 1953. Plant 5 feet high, with violet flowers. (Roots.)

**211864 to 211901. *BETA VULGARIS* L. Chenopodiaceae. Beet.**From England. Seeds presented by the Plant Breeding Institute, Cambridge. Received Dec. 29, 1953. Received as *Beta maritima*, a synonym of the above.

211864. BMR 53/1.	211883. BMR 53/21.
211865. BMR 53/2.	211884. BMR 53/22.
211866. BMR 53/3.	211885. BMR 53/23.
211867. BMR 53/4.	211886. BMR 53/24.
211868. BMR 53/5.	211887. BMR 53/25.
211869. BMR 53/6.	211888. BMR 53/26.
211870. BMR 53/7.	211889. BMR 53/27.
211871. BMR 53/9.	211890. BMR 53/28.
211872. BMR 53/10.	211891. BMR 53/31.
211873. BMR 53/11.	211892. BMR 53/32.
211874. BMR 53/12.	211893. BMR 53/33.
211875. BMR 53/13.	211894. BMR 53/34.
211876. BMR 53/14.	211895. BMR 53/39.
211877. BMR 53/15.	211896. BMR 53/40.
211878. BMR 53/16.	211897. BMR 53/41.
211879. BMR 53/17.	211898. BMR 53/43.
211880. BMR 53/18.	211899. BMR 53/44.
211881. BMR 53/19.	211900. BMR 53/45.
211882. BMR 53/20.	211901. BMR 53/46.

**211902 to 212041.**

From Iran. Seeds presented by the American Embassy, Tehran. Received Dec. 29, 1953.

211902 and 211903. *ALLIUM CEPA* L. Liliaceae.

Onion.

211902. No. 1. From Abadeh.

211903. No. 2.

211904. *ALLIUM PORRUM* L.

Leek.

211905. *APIUM GRAVEOLENS* L. Apiaceae.

Celery.

## 211902 to 212041—Continued

211906. BETA VULGARIS L. Chenopodiaceae. Beet.  
 211907. BRASSICA OLERACEA var. CAPITATA L. Brassicaceae. Cabbage.  
 211908. BRASSICA OLERACEA var. GONGYLODES L. Kohlrabi.  
 211909. CAPSICUM FRUTESCENS L. Solanaceae. Redpepper.  
 211910. CERCIS SILIQUASTRUM L. Caesalpiniaceae.  
 211911 to 211917. CITRULLUS VULGARIS Schrad. Cucurbitaceae. Watermelon.

211911. No. 1. 311915. No. 5.  
 211912. No. 2. 211916. No. 6.  
 211913. No. 3. 211917. No. 7.  
 211914. No. 4.

## 211918 to 211973. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.

211918. No. 1. Rizaiyeh. 211946. No. 29.  
 211919. No. 2. Resht. 211947. No. 30. Thariar.  
 211920. No. 3. Shiraz. 211948. No. 31.  
 211921. No. 4. Kermanshah. 211949. No. 32.  
 211922. No. 5. 211950. No. 33.  
 211923. No. 6. Tabriz. 211951. No. 34. Shariar.  
 211924. No. 7. Tabriz. 211952. No. 35.  
 211925. No. 8. 211953. No. 36.  
 211926. No. 9. Mazanderan. 211954. No. 37.  
 211927. No. 10. Kermanshah. 211955. No. 38. Khasvin.  
 211928. No. 11. Mazanderan. 211956. No. 39. Tabriz.  
 211929. No. 12. Shiraz. 211957. No. 40. Kerman.  
 211930. No. 13. Shahsavari. 211958. No. 41. Resht.  
 211931. No. 14. Kerman. 211959. No. 42. Isfahan.  
 211932. No. 15. Isfahan. 211960. No. 43. Tabriz.  
 211933. No. 16. Kerman. 211961. No. 44. Mazanderan.  
 211934. No. 17. Kermanshah. 211962. No. 45. Khasvin.  
 211935. No. 18. Kermanshah. 211963. No. 46. Shiraz.  
 211936. No. 19. Mazanderan. 211964. No. 47. Isfahan.  
 211937. No. 20. Resht. 211965. No. 48. Tabriz.  
 211938. No. 21. Rizaiyeh. 211966. No. 49. Khar.  
 211939. No. 22. Rizaiyeh. 211967. No. 50.  
 211940. No. 23. Rizaiyeh. 211968. No. 51. Kermanshah.  
 211941. No. 24. Rizaiyeh. 211969. No. 52. Shiraz.  
 211942. No. 25. Shiraz. 211970. No. 53.  
 211943. No. 26. Shiraz. 211971. No. 54. Resht.  
 211944. No. 27. Tabriz. 211972. No. 55. Khasvin.  
 211945. No. 28. 211973. No. 56.

## 211974 to 211988. CUCUMIS SATIVUS L.

Cucumber.

211974. No. 1. Isfahan. 211976. No. 3. Khasvin.  
 211975. No. 2. Kerman. 211977. No. 4. Isfahan.

## 211902 to 212041—Continued

## 211974 to 211988—Continued

211978. No. 5. Maragheh.	211984. No. 11. Tabriz.
211979. No. 6. Rizaiyeh.	211985. No. 12. Mazanderan.
211980. No. 7. Shahsavar.	211986. No. 13. Tabriz.
211981. No. 8. Kermanshah.	211987. No. 14.
211982. No. 9. Tabriz.	211988. No. 15.
211983. No. 10. Tabriz.	

## 211989 to 211992. CUCURBITA MAXIMA Duchesne. Cucurbitaceae. Squash.

211989. No. 1.	211991. No. 3.
211990. No. 2.	211992. No. 4.

## 211993 to 211999. CUCURBITA MOSCHATA Duchesne. Cushaw.

211993. No. 1. Rizaiyeh.	211997. No. 5. Isfahan.
211994. No. 2. Shahsavar.	211998. No. 6.
211995. No. 3. Khasvin.	211999. No. 7.
211996. No. 4. Kermanshah.	

## 212000 to 212008. CUCURBITA PEPO L. Pumpkin.

212000. No. 1. Kadu.	212005. No. 6.
212001. No. 2.	212006. No. 7. Khasvin.
212002. No. 3. Isfahan.	212007. No. 8.
212003. No. 4. Shiraz.	212008. No. 9. Rizaiyeh.
212004. No. 5. Isfahan.	

212009. CUCURBITA MAXIMA Duchesne. Squash.  
No. 10.212010. CUCURBITA PEPO L. Pumpkin.  
No. 11. Tabriz.212011. CUCURBITA MOSCHATA Duchesne. Cushaw.  
No. 12. Resht.212012 and 212013. CUCURBITA PEPO L. Pumpkin.  
212012. No. 13. Tabriz.

212013. No. 14. Kerman.

## 212014. CUCURBITA sp.

Mixture of *C. pepo* and *C. moschata*.

## 212015. LACTUCA SATIVA L. Cichoriaceae. Lettuce.

## 212016. LAGENARIA LEUCANTHA (Duch.) Rusby. Cucurbitaceae. Calabash gourd.

## 212017 and 212018. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.

212017. No. 1.

212018. No. 2.

## 212019 to 212027. PHASEOLUS VULGARIS L. Fabaceae. Common bean.

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212022. No. 4. 212027. No. 9.

212023. No. 5.



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212030. No. 3.

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212031. No. 4.

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212035. No. 4.

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From Israel. Seeds presented by the Government Agricultural Experiment Station, Nve-Yaar. Received Dec. 29, 1953.

From Yarkon river, North of Tel-Aviv, Coastal Plain. July 11, 1953.

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*durum*. See *T. durum*.

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# *Plant Inventory No. 162*

UNITED STATES DEPARTMENT OF AGRICULTURE

Washington, D.C., December 1960



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## PLANT MATERIAL INTRODUCED JANUARY 1 TO DECEMBER 31, 1954 (NOS. 212043 TO 222845)

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This inventory, No. 162, lists the plant material (Nos. 212043 to 222845) received by the New Crops Research Branch, Crops Research Division, Agricultural Research Service, during the period from January 1 to December 31, 1954. From 1954 to 1957 this unit was known as the Plant Introduction Section, Horticultural Crops Research Branch, Agricultural Research Service, United States Department of Agriculture. It is a historical record of plant material introduced for Department and other specialists, and is not to be considered as a list of plant material for distribution.

PAUL G. RUSSELL and  
BERNARD M. LEESE, JR., *botanists*

*Plant Industry Station,  
Beltsville, Md.*





## I N V E N T O R Y

### 212043 and 212044.

From France. Seeds presented by A DeLucq, Vic-Fezensac, Gers. Received Jan. 4, 1954.

212043. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.

*Star of Choisy.*

212044. *VICIA SATIVA* L. Fabaceae. Common vetch.

*Ardagon.*

### 212045 to 212053.

From Chile. Collected by E. E. Smith, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Jan. 5, 1954.

212045. *DIOSCOREA* sp. Dioscoreaceae.

No. 94. Fourteen miles east of Victoria toward Tolhuaca, Malleco Province. Dec. 15, 1953. (Roots.)

212046. *DIOSCOREA* sp.

No. 97. Nine miles north of Curacautín, Malleco Province. Dec. 15, 1953. (Roots.)

212047. *DIOSCOREA* sp.

No. 98. Nine miles south of Curacautín on the road to Cherquenco, Cautín Province. Dec. 16, 1953. (Roots.)

212048. *DIOSCOREA* sp.

No. 100. Halfway between Curacautín and Cherquenco, Cautín Province. Dec. 16, 1953. (Roots.)

212049. *DIOSCOREA* sp.

No. 108. Volcan Llaima, Cautín Province. Dec. 17, 1953.

212050. *DIOSCOREA* sp.

No. 114. Fundo "Mulpulmo," Osorno, Osorno Province. Dec. 21, 1953. *Jobon de Monte*. (Tubers.)

212051. *SOLANUM TUBEROSUM* L. Solanaceae. Potato.

No. 101. Six miles north of Cherquenco, Cautín Province. Dec. 16, 1953. Tubers 2 feet long.

212052. (Undetermined.)

No. 102. Volcan Llaima, Cautín Province. Dec. 16, 1953. Flowers reddish with a slightly purple cast. On deep volcanic ash. (Bulbs.)

212053. (Undetermined.)

No. 104. Volcan Llaima, Cautín Province. Dec. 16, 1953. Flowers small, greenish yellow. Volcanic ash.

**212054 to 212057. VICIA SATIVA L. Fabaceae. Common vetch.**

From Sweden. Seeds presented by Hedda Nordenskiöld, Royal Agricultural College of Sweden, Uppsala. Received Jan. 5, 1954.

212054. *Criewener*. Diploid.

212055. Seeds white. Diploid.

212056. *Criewener*. Tetraploid.

212057. Seeds white. Tetraploid.

**212058 to 212060.**

From Greece. Seeds presented by C. E. Yale, United States Operations Mission, Athens. Received Jan. 5, 1954.

212058. CUCUMIS MELO L. Cucurbitaceae.

Muskmelon.

*Argus*.

212059. CUCUMIS SATIVUS L.

Cucumber

*Kalivia*.

212060. CUCURBITA PEPO L.

Pumpkin.

**212061. COLOCASIA ESCULENTA (L.) Schott. Araceae. Taro.**

From Barbados. Corms presented by the United States Sugar Corporation, Clewiston, Fla. Received June 15, 1937; numbered Jan. 5, 1954.

*White Eddo; Seal Top*.

**212062. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.**

From Costa Rica. Seeds presented by Jorge Leon, Turrialba. Received Jan. 5, 1954.

*Turrialba*.

**212063. CHLORIS GAYANA Kunth. Poaceae. Rhodes grass.**

From France. Seeds presented by the Director, Inter-African Bureau for Soils and Rural Economy, Paris. Received Jan. 5, 1954.

Originally from Madagascar.

**212064. TEPHROSIA VOGELII Hook. f. Fabaceae.**

From Liberia. Seeds presented by Frank E. Pinder, United States Operations Mission, Monrovia. Received Jan. 5, 1954.

**212065 to 212071. ZEA MAYS L. Poaceae. Corn.**

From Australia. Seeds presented by the Department of Agriculture, Sydney, New South Wales. Received Jan. 5, 1954.

212065. *M 1*.

212069. *61 A*.

212066. *Y 1*.

212070. *68*.

212067. *13 B*.

212071. *FF 12*.

212068. *21 D*.

**212072 and 212073.**

From Japan. Seeds presented by the Missouri Botanical Garden, St. Louis, Mo. Received Jan. 6, 1954.

From Kawanishi Mountain, Honshu.

212072. DIOSCOREA sp. Dioscoreaceae.

*226-53-8*.

212073. DIOSCOREA sp.

*226-53-12*.

**212074 to 212129.**

From Afghanistan. Seeds collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Jan. 6, 1954.

**212074 to 212076. ALLIUM CEPA L. Liliaceae. Onion.**

**212074.** No. 12823. Market, Khanabad, Kataghan Province. Oct. 17, 1953. Reddish.

**212075.** No. 13037. Nad-i-Ali, Kandahar Province. Altitude 2,000-3,000 feet. Nov. 7, 1953. Purple.

**212076.** No. 13071. Market, Ghazni, Ghazni Province. Altitude 7,000 feet. Nov. 8, 1953. Purple.

**212077 and 212078. ALLIUM PORRUM L. Leek.**

**212077.** No. 12892. Market, Mazar-i-Sharif. Oct. 20, 1953.

**212078.** No. 13038. Nad-i-Ali, Kandahar Province. Altitude 2,000-3,000 feet. Nov. 7, 1953. Short stemmed.

**212079. ANETHUM GRAVEOLENS L. Apiaceae. Dill.**

No. 12833. Market, Khanabad, Kataghan Province. Oct. 17, 1953.

**212080. BRASSICA OLERACEA var. CAPITATA L. Brassicaceae. Cabbage.**

No. 13036. Nad-i-Ali, Kandahar Province. Altitude 2,000-3,000 feet. Nov. 7, 1953.

**212081. BRASSICA CAMPESTRIS L.**

No. 12841. Market, Khanabad, Kataghan Province. Oct. 17, 1953. Roots eaten.

**212082. BRASSICA sp.**

No. 12843. Market, Khanabad, Kataghan Province. Oct. 17, 1953. Seeds used in pickling.

**212083. BRASSICA sp.**

No. 13056. Ghazni, Ghazni Province. Altitude 7,000 feet. Nov. 7, 1953. Oilseed.

**212084. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.**

No. 12765. Market, Faisabad, Badakhshan Province. Altitude 3,000-4,000 feet. Oct. 13, 1953. Elliptic, dark green; flesh of good flavor and texture.

**212085. CUCUMIS MELO var. INODORUS Naud.**

No. 12849. Kunduz, Kataghan Province. Oct. 18, 1953.

**212086 to 212090. CUCUMIS MELO L.**

**212086.** No. 12851. Khanabad, Kataghan Province. October 1953.

**212087.** No. 12852. Kunduz, Kataghan Province. Oct. 18, 1953. Early spring variety.

**212088.** No. 12949. Market, Herat, Herat Province. Nov. 1, 1953.

**212089.** No. 13077. Market, Bala Narghab, Herat Province. October 1953. Large, casaba-like fruit, dark green, good keeper.

**212090.** No. 12855. Kunduz, Kataghan Province. Oct. 18, 1953.

**212091 and 212092. CICER ARIETINUM L. Fabaceae. Chickpea.**

**212091.** No. 13051. Nad-i-Ali, Kandahar Province. Altitude 2,000-3,000 feet. Nov. 7, 1953.

**212092.** No. 13063. Market, Ghazni, Ghazni Province. Altitude 7,000 feet. Nov. 8, 1953. Small grained.



## 212074 to 212129—Continued

212093. *CITRULLUS COLOCYNTHIS* (L.) Schrad. Cucurbitaceae. **Colocynth.**  
 No. 12994. Twelve miles east of Farah, Farah Province, Nov. 5, 1953. Fruits small, round.
212094. *CITRULLUS VULGARIS* Schrad.  
 No. 13073. Market, Ghazni, Ghazni Province. Altitude 7,000 feet. Nov. 8, 1953. Fruits medium sized, round; flesh pink.
212095. *CORIANDRUM SATIVUM* L. Apiaceae. **Coriander.**  
 No. 13062. Market, Ghazni, Ghazni Province. Altitude 7,000 feet. Nov. 8, 1953.
212096. *DAUCUS CAROTA* L. Apiaceae. **Carrot.**
212097. *HORDEUM* sp. Poaceae. **Barley.**  
 No. 12922. Market, Bala Narghab, Herat Province. Altitude 4,000 feet. Oct. 28, 1953.
212098. *HORDEUM* sp.  
 No. 13035. Nad-i-Ali, Kandahar Province. Altitude 2,000–3,000 feet. Nov. 7, 1953.
212099. *LACTUCA SATIVA* L. Cichoriaceae. **Lettuce.**  
 No. 13040. Nad-i-Ali, Kandahar Province. Altitude 2,000–3,000 feet. Nov. 7, 1953.
212100. *LENS CULINARIS* Medic. Fabaceae. **Lentil.**  
 No. 13058. Ghazni, Ghazni Province. Altitude 7,000 feet. Nov. 8, 1953.
212101. *LINUM USITATISSIMUM* L. Linaceae. **Flax.**  
 No. 12801. Near Faisabad, Badakhshan Province. Oct. 14, 1953.
212102. *LUFFA ACUTANGULA* (L.) Roxb. Cucurbitaceae. **Singkwa towelgourd.**  
 No. 13047. Nad-i-Ali, Kandahar Province. Altitude 2,000–3,000 feet. Nov. 7, 1953. Annual.
212103. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. **Tomato.**  
 No. 13039. Nad-i-Ali, Kandahar Province. Altitude 2,000–3,000 feet. Nov. 7, 1953.
- 212104 to 212106. *MEDICAGO SATIVA* L. Fabaceae. **Alfalfa.**  
 212104. No. 12835. Market, Khanabad, Kataghan Province. Altitude 2,500–3,500 feet. Oct. 17, 1953.
212105. No. 13044. Nad-i-Ali, Kandahar Province. Nov. 7, 1953.
212106. No. 13072. Market, Ghazni, Ghazni Province. Altitude 7,000 feet. Nov. 8, 1953.
212107. *MELILOTUS OFFICINALIS* (L.) Lam. Fabaceae. **Yellow sweetclover.**  
 No. 12707. Bamian. Oct. 7, 1953. Altitude 9,000 feet.
212108. *PANICUM MILIACEUM* L. Poaceae. **Proso.**  
 No. 12881. Market, Mazar-i-Sharif. Oct. 20, 1953. Altitude 2,000–3,000 feet. Used as bird seed.
212109. *PHASEOLUS AUREUS* Roxb. Fabaceae. **Mung bean.**  
 No. 13034. Nad-i-Ali, Kandahar Province. Altitude 2,000–3,000 feet. Nov. 7, 1953.

## 212074 to 212129—Continued

- 212110 and 212111. *PHASEOLUS VULGARIS* L. Common bean.  
 212110. No. 13041. Nad-i-Ali, Kandahar Province. Altitude 2,000–3,000 feet. Nov. 7, 1953.  
 212111. No. 13075. Anjuman Pass, Kabul Province. Altitude 9,000 feet. Nov. 10, 1953.
212112. *PISUM SATIVUM* L. Fabaceae. Pea.  
 No. 12800. Near Faisabad, Badakhshan Province. Oct. 14, 1953.
212113. *PRUNUS ARMENIACA* L. Amygdalaceae. Apricot.  
 No. 13067. Market, Ghazni, Ghazni Province. Altitude 7,000 feet. Nov. 8, 1953. Kernels sweet.
212114. *PRUNUS PERSICA* (L.) Batsch. Peach.  
 No. 12807. Faisabad, Badakhshan Province. Oct. 14, 1953. Medium to large fruits with very thin skin; freestone; flavor excellent.
212115. *RICINUS COMMUNIS* L. Euphorbiaceae. Castorbean.  
 No. 12957. Market, Herat, Herat Province. Nov. 1, 1953.
212116. *RUBUS* sp. Rosaceae.  
 No. 12837. Market, Khanabad, Kataghan Province. Oct. 17, 1953.
212117. *SESAMUM INDICUM* L. Pedaliaceae. Sesame.  
 No. 13049. Nad-i-Ali, Kandahar Province. Altitude 2,000–3,000 feet. Nov. 7, 1953.
212118. *SOLANUM MELONGENA* L. Solanaceae. Eggplant.  
 No. 12875. Market, Mazar-i-Sharif. Oct. 20, 1953. Fruits black, long, slender.
- 212119 and 212120. *SPINACIA OLERACEA* L. Chenopodiaceae. Spinach.  
 212119. No. 12870. Market, Mazar-i-Sharif. Oct. 20, 1953.  
 212120. No. 13054. Nad-i-Ali, Kandahar Province. Nov. 7, 1953.
- 212121 and 212122. *TRIFOLIUM RESUPINATUM* L. Fabaceae. Persian clover.  
 212121. No. 13045. Nad-i-Ali, Kandahar Province. Nov. 7, 1953. Annual.  
 212122. No. 13070. Market, Ghazni, Ghazni Province. Altitude 2,000 feet. Nov. 8, 1953. Used for pasture and hay.
- 212123 and 212124. *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae. Fenugreek.  
 212123. No. 12845. Market, Kunduz, Kataghan Province. Oct. 17, 1953.  
 212124. No. 13065. Market, Ghazni, Ghazni Province. Nov. 8, 1953.
- 212125 to 212128. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.  
 212125. No. 12693. Bamian. Altitude 9,000 feet. Oct. 7, 1953.  
 212126. No. 12792. Near Faisabad, Badakhshan Province. Oct. 14, 1953. Winter wheat.  
 212127. No. 12793. Near Faisabad, Badakhshan Province. Altitude 3,000–4,000 feet. Oct. 14, 1953. Winter wheat.  
 212128. No. 13053. Nad-i-Ali, Kandahar Province. Nov. 7, 1953.
212129. *VICIA FABA* L. Fabaceae. Broadbean.  
 No. 13048. Nad-i-Ali, Kandahar Province. Nov. 7, 1953.

**212130 and 212131.**

From Chile. Seeds collected by E. E. Smith, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Jan. 8, 1954.

212130. *ADESMIA* sp. Fabaceae.

No. 81. Salto de Laja, Southeast of Yumbel, Concepción Province. Dec. 4, 1953. Low spreading perennial growing along river.

212131. *ADESMIA* sp.

No. 83. Between Negrete and Agnol, Malleco Province. Dec. 5, 1953. Small perennial on dry roadside.

**212132 to 212138. MEDICAGO SATIVA L. Fabaceae. Alfalfa.**

From Lebanon. Seeds presented by Gilbert L. Terman, American Embassy, Beirut. Received Jan. 8, 1954.

212132 to 212137. From Deir El Beidar.

212132. No. 1.

212135. No. 4.

212133. No. 2.

212136. No. 5.

212134. No. 3.

212137. No. 6.

212138. No. 7, From Lakloulk.

**212139 to 212206. TRITICUM AESTIVUM L. Poaceae.**

**Common wheat.**

From Argentina. Seeds presented by Enrique H. Brucher, University of Tucumán, Tucumán. Received Jan. 8, 1954.

212139. #1527/46

212162. #1527/72

212140. #1527/47

212163. #1527/73

212141. #1527/48

212164. #1527/74

212142. #1527/49

212165. #1527/75

212143. #1527/52

212166. #1527/76

212144. #1527/53

212167. #1527/77

212145. #1527/54

212168. #1527/78

212146. #1527/55

212169. #1527/79

212147. #1527/56

212170. #1527/80

212148. #1527/58

212171. #1527/81

212149. #1527/59

212172. #1527/82

212150. #1527/60

212173. #1527/83

212151. #1527/61

212174. #1527/84

212152. #1527/62

212175. #1527/85

212153. #1527/63

212176. #1527/86

212154. #1527/64

212177. #1527/87

212155. #1527/65

212178. #1527/88

212156. #1527/66

212179. #1527/89

212157. #1527/67

212180. #1527/90

212158. #1527/68

212181. #1527/91

212159. #1527/69

212182. #1527/92

212160. #1527/70

212183. #1527/93

212161. #1527/71

212184. #1527/94

## 212139 to 212206—Continued

212185. #1527/95	212196. #1527/109
212186. #1527/96	212197. #1527/110
212187. #1527/98	212198. #1527/113
212188. #1527/99	212199. #1527/114
212189. #1527/100	212200. #1527/115
212190. #1527/101	212201. #1527/116
212191. #1527/104	212202. #1527/117
212192. #1427/105	212203. #1527/119
212193. #1527/106	212204. #1527/120
212194. #1527/107	212205. #1527/126
212195. #1527/108	212206. #1527/127

## 212207. MORUS sp. Moraceae.

Mulberry.

From South Dakota. Seeds presented by Rev. H. K. Hartmann, Tripp. Received Jan. 8, 1954. Originally from Meckenheim, Rhenish Palatinate, Germany.

## 212208 to 212214.

From Greece. Seeds presented by B. E. Grant, Foreign Office of Agriculture, Athens. Received Jan. 11, 1954.

## 212208 and 212209. CITRULLUS VULGARIS Schrad. Cucurbitaceae.

Watermelon.

212208. No. 1.

212209. No. 2.

## 212210 and 212211. CUCUMIS MELO L. Cucurbitaceae.

Muskmelon.

212210. No. 1.

212211. No. 2.

## 212212. CUCUMIS MELO var. INODORUS Naud.

No. 3.

## 212213. CUCUMIS MELO L.

No. 4.

## 212214. CUCURBITA PEPO L. Cucurbitaceae.

Pumpkin.

## 212215 to 212231.

From Australia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Division of Plant Industry, Canberra. Received Jan. 11, 1954. Localities given are original sources of material.

## 212215 to 212220. South America.

## 212215 and 212216. DESMODIUM BARBATUM (L.) Benth. Fabaceae.

Caraguillo.

212215. C.P.I. 11788.

212216. C.P.I. 11791.

## 212217 to 212220. DESMODIUM CANUM (Gmel.) Schinz &amp; Thell.

212217. C.P.I. 11739.

212219. C.P.I. 11794.

212218. C.P.I. 11792.

212220. C.P.I. 11797.



**212215 to 212231—Continued**

212221. *DESMODIUM GYROIDES* DC.

C.P.I. 17914. El Salvador.

212222 and 212223. *DESMODIUM NICARAGUENSE* Benth. & Oerst.

212222. C.P.I. 17915. El Salvador.

212223. C.P.I. 17917. El Salvador.

212224 to 212226. *DESMODIUM UNCINATUM* (Jacq.) DC.

212224. C.P.I. 8990. Brazil.

212225. C.P.I. 11740. Honolulu, Hawaii.

212226. C.P.I. 11741. South America.

212227. *DESMODIUM* sp.

C.P.I. 11798. South America.

212228. *DESMODIUM* sp.

C.P.I. 17912. El Salvador.

212229. *DESMODIUM* sp.

C.P.I. 17913. El Salvador.

212230. *DESMODIUM* sp.

C.P.I. 17916. El Salvador.

212231. *DESMODIUM* sp.

C.P.I. 17918. El Salvador

**212232 and 212233.**

From Japan. Seeds presented by S. Kumazawa, Kyushu Agricultural Experiment Station, Kurume-shi. Received Jan. 11, 1954. Grown at Fukuoka-ken.

212232. *ARACHIS HYPOGAEA* L. Fabaceae.

Common peanut.

*Kurume Bansei-Tairyu* No. 1. A cross between "Tatirakuda" belonging to the Virginia type and "Southern Cross" belonging to the Spanish type; season 150 days. A very productive, large peanut, with 2 kernels. Plants dwarf, bushy, vigorous, and disease resistant.

212233. *CUCUMIS SATIVUS* L. Cucurbitaceae.

Cucumber.

*Kurume Natuhusinari*. A long-day cucumber bred by the triple cross between 2 varieties of north-Chinese cucumbers and 1 of the Japanese cucumber. The white-spined fruits grow about 5 inches long and 1.5 inches thick. Very prolific, disease resistant; a vigorous grower.

**212234 to 212247.**

From Iowa. Seeds planted at the Regional Plant Introduction Station, Ames. Numbered Jan. 12, 1954.

Original sources indicated.

212234. *AGROPYRON SCABRUM* (R. Br.) Beauv. Poaceae.

South Island, New Zealand.

212235. *BROMUS* sp. Poaceae.

Rio Negro, Argentina; cold, windy region.

212236. *PANICUM URVILLIANUM* Kunth. Poaceae.

Argentina.

212237. *DANTHONIA PILOSA* R. Br. Poaceae.

South Island, New Zealand.

## 212234 to 212247—Continued

212238. *LATHYRUS MAGELLANICUS* Lam. Fabaceae.  
Argentina.
212239. *GLYCINE USSURIENSIS* Regel & Mack. Fabaceae.  
C. V. Porter, Menomonie, Wis.
212240. *AGROPYRON TRICHOPHORUM* (Link) Richt. Poaceae.  
No. P-41. Soil Conservation Nursery, Pullman, Wash.
212241. *ONOBRYCHIS VICIAEFOLIA* Scop. Fabaceae. Sanfoin.  
No. P-605. Soil Conservation Nursery, Pullman, Wash.
212242. *ANETHUM GRAVEOLENS* L. Apiaceae. Dill.  
No. 5811. Turkey; collected by J. R. Harlan.
- 212243 and 212244. *LEPIDIUM SATIVUM* L. Brassicaceae. Garden cress.  
212243. No. 7112. Turkey; collected by J. R. Harlan.  
212244. No. 7123. Turkey; collected by J. R. Harlan.
212245. *TRIFOLIUM REPENS* L. Fabaceae. White clover.  
Selected from P. I. 186168. Czechoslovakia, 1950.
212246. *BROMUS JAPONICUS* Thunb. Poaceae.  
No. 8468. Selected from P. I. 173724. Collected in Turkey by J. R. Harlan.
212247. *MELILOTUS ALBA* Desr. Fabaceae. White sweetclover.  
Selected from P. I. 184117; from Yugoslavia.

## 212248 to 212262.

From Maryland. Plants growing at the United States Plant Introduction Garden, Glenn Dale. Numbered Jan. 14, 1954.

- 212248 to 212252. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.  
From the Research Station, East Malling, Kent, England. Merton-Malling Selections; woolly aphid resistant rootstocks.
212248. No. 102. 212251. No. 109.  
212249. No. 104. 212252. No. 111.  
212250. No. 106.
- 212253 to 212257. *PRUNUS CERASIFERA* Ehrh. Amygdalaceae. Myrobalan plum.  
212253. Selected seedling of P. I. 125633.  
212254. Selected seedling of P. I. 125634.  
212255. Selected seedling of P. I. 125635.  
212256. Selected seedling of P. I. 132178.  
212257. Selected seedling of P. I. 132183.
212258. *PYRUS COMMUNIS* L. Malaceae. Pear.  
Seedling of *Middletown*.
212259. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.  
Medium-sized red apple of unknown parentage.
212260. *PRUNUS PERSICA* (L.) Batsch. Amygdalaceae. Peach.  
*Jewel*. Originally from Gainesville, Fla.

**212248 to 212262—Continued**

212261 and 212262. *PRUNUS PERSICA* var. *NECTARINA* (Ait.) Maxim. Nectarine.  
Originally from Blacksburg, Va.

212261. *Redchief*.

212262. *Cavalier*.

**212263 to 212280. SACCHARUM. Poaceae. Sugarcane.**

From Fiji. Cuttings presented by the Colonial Sugar Refining Co., Ltd., Lautoka. Received Jan. 12, 1954.

212263. *Fiji No. 10.*

212272. *Fiji No. 21.*

212264. *Fiji No. 11.*

212273. *Fiji No. 23.*

212265. *Fiji No. 14.*

212274. *Fiji No. 24.*

212266. *Fiji No. 15.*

212275. *Fiji No. 25.*

212267. *Fiji No. 16.*

212276. *Fiji No. 26.*

212268. *Fiji No. 17.*

212277. *Fiji No. 28.*

212269. *Fiji No. 18.*

212278. *Fiji No. 29.*

212270. *Fiji No. 19.*

212279. *Fiji No. 30.*

212271. *Fiji No. 20.*

212280. *Fiji No. 32.*

**212281 to 212335.**

From Afghanistan. Seeds collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Jan. 13, 1954.

212281. *AGROSTIS ALBA* L. Poaceae. Redtop.

No. 12722. Bund-i-Amir. Altitude 10,000 feet. Oct. 8, 1953. Perennial.

212282 and 212283. *AMMI COPTICUM* L. Apiaceae.

212282. No. 12825. Market, Khanabad, Kataghan Province. Oct. 17, 1953.

212283. No. 13064. Market, Ghazni, Ghazni Province. Altitude 7,000 feet. Nov. 8, 1953.

212284. *ANDROPOGON* sp. Poaceae.

No. 12721. Bund-i-Amir. Altitude 11,000 feet. Oct. 8, 1953.

212285. *FESTUCA ELATIOR* L. Poaceae. Meadow fescue.

No. 12704. Bamian. Altitude 9,000 feet. Oct. 7, 1953.

212286. *CAPSICUM FRUTESCENS* L. Solanaceae. Redpepper.

No. 12826. Market, Khanabad, Kataghan Province. Oct. 17, 1953.

212287 to 212289. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. Watermelon.

212287. No. 12923. Market, Qual Nau, Herat Province. Oct. 29, 1953.

212288. No. 12930. Market, Bala Margau, Herat Province. Oct. 30, 1953. Rind thin but tough, green and whitish striped, subglobose with depressed ends; seeds small; flesh very sweet.

212289. No. 12948. Market, Herat, Herat Province. Nov. 1, 1953.

212290. *CRATAEGUS AZAROLUS* L. Malaceae.

No. 12805. Near Faisabad, Badakhshan Province. Oct. 14, 1953.

## 212281 to 212335—Continued

212291 and 212292. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.

212291. No. 12754. Baglan, Kataghan Province. Altitude 3,000 feet. Oct. 11, 1953. Small, elliptic, smooth; blossom end rather pointed.

212292. No. 12856. Kunduz, Kataghan Province. Altitude 2,000–3,000 feet. Oct. 18, 1953.

212293. CYNODON DACTYLON (L.) Pers. Poaceae. Bermuda grass.

No. 12757. Between Tahiqan and Keshim along road to Faisabad, Kataghan Province. Altitude 3,000 feet.

212294. ERAGROSTIS sp. Poaceae.

No. 12718. Bund-i-Amir. Altitude 11,000 feet. Oct. 8, 1953. Perennial.

212295. ERAGROSTIS STAROSSELSKYI Grossh.

No. 12789. Faisabad, Badakhshan Province. Oct. 14, 1953.

212296. ERAGROSTIS sp.

No. 12813. Twenty miles northeast of Keshim, Badakhshan Province. Oct. 16, 1953. Annual.

212297. ERAGROSTIS STAROSSELSKYI Grossh.

No. 12820. Seventeen miles northeast of Keshim, Badakhshan Province. Oct. 16, 1953.

212298. EREMURUS sp. Liliaceae.

No. 12727. Bund-i-Amir. Altitude 10,000 feet. Oct. 8, 1953. Multi-leaved rosette with spikes  $1\frac{1}{2}$ –2 feet tall.

212299. FESTUCA sp. Poaceae.

No. 12719. Bund-i-Amir. Altitude 10,000–11,000 feet. Oct. 8, 1953. Perennial.

212300. FESTUCA sp.

No. 12720. Bund-i-Amir. Altitude 10,000–11,000 feet. Oct. 8, 1953. Perennial.

212301. FOENICULUM VULGARE Mill. Apiaceae. Fennel.

No. 12844. Market, Khanabad, Kataghan Province. Oct. 17, 1953.

212302. GLYCERIA sp. Poaceae.

No. 12703. Bamian. Altitude 9,000 feet. Oct. 7, 1953.

212303. HIPPOPHAE sp. Elaeagnaceae.

No. 12702. Bamian. Oct. 7, 1953. Fruits pale orange.

212304. HORDEUM sp. Poaceae. Barley.

No. 12724. Bund-i-Amir. Altitude 10,000–11,000 feet. Oct. 8, 1953.

212305. HORDEUM sp.

No. 12902. Shibarghan, Mazar-i-Sharif. Oct. 21, 1953. Annual.

212306. HORDEUM sp.

No. 12919. Fifty miles southwest of Maimana, Maimana Province. Oct. 28, 1953. Annual.

212307. HORDEUM sp.

No. 13069. Market, Ghazni, Ghazni Province. Nov. 8, 1953.

213308. IRIS sp. Iridaceae.

No. 12701. Bamian. Altitude 9,000 feet. Oct. 7, 1953.



## 212281 to 212335—Continued

212309 and 212310. *LAGENARIA LEUCANTHA* (Duch.) Rusby. Cucurbitaceae.  
Calabash gourd.

212309. No. 12961. Market, Herat, Herat Province. Nov. 1, 1953.

212310. No. 13033. Market, Kandahar. Nov. 6, 1953.

212311. *LALLEMANTIA* sp. Menthaceae.

No. 12647. Charikal, Kabul Province. Altitude 6,000 feet. Sept. 26, 1953. Cooked and eaten for sore throat.

212312. *LATHYRUS CICERA* L. Fabaceae.

No. 13052. Nad-i-Ali, Kandahar Province. Nov. 7, 1953.

212313. *MENTHA LONGIFOLIA* (L.) Huds. Menthaceae.

No. 12758. Between Tahiqan and Keshim, Kataghan Province. Perennial aromatic herb. Foliage dried and used to season food.

212314. *MENTHA* sp.

No. 12969. Market, Herat, Herat Province. Nov. 3, 1953.

212315. *ORYZA SATIVA* L. Poaceae.

Rice.

No. 12822. Three miles east of Khanabad, Kataghan Province. Oct. 17, 1953.

212316. *ORYZOPSIS* sp. Poaceae.

No. 12715. Fifteen miles east of Bund-i-Amir. Altitude 16,000 feet. Oct. 8, 1953.

212317. *PANICUM MILIACEUM* L. Poaceae.

Prose.

No. 12834. Market, Khanabad, Kataghan Province. Oct. 17, 1953.

212318. *PENNISETUM* sp. Poaceae.

No. 12815. Twenty miles northeast of Keshim, Badakhshan Province. Altitude 3,500 feet. Oct. 16, 1953. Bushy perennial.

212319. *PHASEOLUS AUREUS* Roxb. Fabaceae.

Mung bean.

No. 13057. Ghazni, Ghazni Province. Nov. 7, 1953.

212320. *PHASEOLUS VULGARIS* L.

Common bean.

No. 13042. Nad-i-Ali, Kandahar Province. Nov. 7, 1953.

212321 and 212322. *POA BULBOSA* L. Poaceae.

212321. No. 12817. Twenty miles northeast of Keshim, Badakhshan Province. Altitude 3,500 feet. Oct. 16, 1953. Perennial.

212322. No. 12860. Thirty miles west of Kunduz, Kataghan Province. Altitude 2,000-3,000 feet. Oct. 19, 1953. Perennial.

212323. *POA* sp.

No. 12726. Bund-i-Amir. Oct. 8, 1953. Annual.

212324. *PRUNUS ARMENIACA* L. Amygdalaceae.

Apricot.

No. 13076. Kandahar, Kandahar Province. Nov. 7, 1953.

212325. *PRUNUS DOMESTICA* L.

Common plum.

No. 13055. Market, Ghazni, Ghazni Province. Nov. 7, 1953.

212326. *SALVIA SCLAREA* L. Menthaceae.

No. 12780. Market, Faisabad, Badakhshan Province. Oct. 13, 1953.

212327. *SALVIA* sp.

No. 12959. Market, Herat, Herat Province. Nov. 1, 1953.

## 212281 to 212335—Continued

212328. *SPINACIA SPINOSA* Moench. Chenopodiaceae.

No. 12974. Market, Herat, Herat Province. Nov. 3, 1953.

212329. *TRIFOLIUM RESUPINATUM* L. Fabaceae.

Persian clover.

No. 12695. Four miles southeast of Shibar Pass along road to Pulkhumry. Altitude 8,500 feet. Oct. 6, 1953. Annual herb with pale-pink flowers.

212330. *TRITICUM AESTIVUM* L. Poaceae.

Common wheat.

No. 13068. Market, Ghazni, Ghazni Province. Nov. 8, 1953.

212331 to 212334. *VICIA ERVILIA* (L.) Willd. Fabaceae.

Vetch.

212331. No. 13043. Nad-i-Ali, Kandahar Province. Nov. 7, 1953.

212332. No. 13059. Ghazni, Ghazni Province. Nov. 8, 1953.

212333. No. 13060. Market, Ghazni, Ghazni Province. Nov. 8, 1953.

212334. No. 13061. Market, Ghazni, Ghazni Province. Nov. 8, 1953.

212335. *ZEA MAYS* L. Poaceae.

Corn.

No. 13050. Nad-i-Ali, Kandahar Province. Nov. 7, 1953.

212336. *CINNAMOMUM CASSIA* Blume. Lauraceae.

From Florida. Plant growing at the United States Plant Introduction Garden, Coconut Grove. Numbered Jan. 13, 1954.

Originally received from the Subtropical Experiment Station, Homestead, Fla., Apr. 10, 1943.

## 212337 to 212345.

From England. Trees purchased from R. C. Notcutt, Ltd., Woodbridge, Suffolk. Received Jan. 14, 1954.

212337. *ACER HENRYI* Pax. Aceraceae.

Maple.

212338.  $\times$  *PRUNUS DAWYCKENSIS* Sealy. Amygdalaceae.212339. *PRUNUS INCISA*  $\times$  *SERRULATA*.*Umineko*.212340. *PRUNUS YEDOENSIS* Mats.

Yoshino cherry.

*Ivensii*.212341 to 212343. *PRUNUS SERRULATA* Lindl. Oriental flowering cherry.212341. *Imose*.212342. *Kursar*.212343. *Pink Perfection*.212344. *PRUNUS SERRULATA* var. *PUBESCENS* Wilson.

Selected form.

212345. *PRUNUS YEDOENSIS*  $\times$  *SUBHIRTILLA*.*Pandora*.212346. *CARTHAMUS TINCTORIUS* L. Asteraceae. Safflower.

From Spain. Seeds presented by the Instituto Nacional de Investigaciones Agronómicas, Madrid. Received Jan. 15, 1954.

**212347 to 212355.**

From England. Budsticks presented by Hilliers & Sons, Winchester, Hants.  
Received Jan. 15, 1954.

212347 to 212353. *PRUNUS LAUROCERASUS* L. Amygdalaceae.  
English cherry-laurel.

- |                           |                                      |
|---------------------------|--------------------------------------|
| 212347. <i>Bruant.</i>    | 212351. <i>Rotundifolia.</i>         |
| 212348. <i>Camellia.</i>  | 212352. <i>Schipkaensis.</i>         |
| 212349. <i>Caucasica.</i> | 212353. <i>Schipkaensis Reynvan.</i> |
| 212350. <i>Latifolia.</i> |                                      |

212354 and 212355. *PRUNUS LUSITANICA* L.

212354. *Myrtifolia.*  
212355. *Variegata.*

**212356 to 212362.**

From Japan. Plants presented by Eikichi Satomi, Seyagaya-ku, Tokyo.  
Received Jan. 15, 1954.

212356 to 212361. *MENTHA ARVENSIS* L. Menthaceae.

212356. *Ao-Kuki* (green stem). A sport, widely grown.  
212357. *Aka-Kuki* (red stem). Round-leaf type.  
212358. *Hokushin*. An improved form of *Aka-Kuki*.  
212359. *Inu-Hakka* (dog peppermint). Plant 2 feet high flowers pale purple. Oil content low.  
212360. *Kitami-Shiroge* (Kitami's white hair).  
212361. *Shiro-Bana* (white flower.)

212362. *MENTHA JAPONICA* (Miq.) Makino.

*Hime-Hakka* (dwarf peppermint). Plant 1 foot high, with very small leaves and pale-purple flowers.

**212363. PINUS** sp. Pinaceae.

Pine.

From Afghanistan. Seeds collected by H. S. Gentry, Agricultural Explorer,  
Horticultural Crops Research Branch, Plant Industry Station, Beltsville,  
Md. Received Jan. 15, 1954.

No. 13134. Market, Kabul. Nov. 26, 1953. Said to have come from  
mountains along the Kashmir border.

**212364 to 212366. SOLANUM TUBEROSUM** L. Solanaceae. **Potato.**

From Costa Rica. Tubers presented by the Inter-American Institute of  
Agricultural Sciences, Turrialba. Received Jan. 18, 1954.

212364. *Cortland.*  
212365. 3 *VW.*  
212366. 3 *WH.*

**212367 and 212368. MEDICAGO SATIVA** L. Fabaceae. **Alfalfa.**

From Iraq. Seeds presented by H. S. Springfield United States Operations  
Mission, American Embassy, Baghdad. Received Jan. 18, 1954.

212367. No. 1. Collected in lawn at Oku Ghraib.  
212368. No. 2. Near Haji Omran.

**212369. MALUS SYLVESTRIS Mill. Malaceae. Apple.**

From Greece. Scions presented by W. H. Alderman, Near East Foundation, Salonica. Received Jan. 18, 1954.

*Belfor (Abbondanza.)* A very productive, early-bearing variety. Fruits above medium in size, round-oblate to round-conic, sometimes oblique, color red, attractive; flavor mild subacid; season late fall and early winter.

**212370. TRITICUM AESTIVUM L. Poaceae. Common wheat.**

From Iraq. Seeds presented by Shelby Cain, United States Operations Mission, American Embassy, Baghdad. Received Jan. 19, 1954.

*Ajiba 210.* A high-yielding hard wheat, medium early in maturing, rust-resistant, moderately cold resistant, vigorous stooler. Introduced into Iraq from the Punjab in 1952.

**212371. SOLANUM sp. Solanaceae.**

From Paraguay. Tubers presented by Fred J. Kemp, Loma Haly, Primavera. Received Jan. 19, 1954.

A wild potato that appears to be disease resistant.

**212372 to 212391.**

From Australia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Canberra City, A.C.T. Received Jan. 20, 1954.

Original sources indicated.

**212372. CHLORIS AMETHYSTEA Hochst. Poaceae.**

C.P.I. 17656. Kenya.

**212373 to 212383. CHLORIS GAYANA Kunth.**

Rhodes grass.

212373. No. 1.

212374. C.P.I. 15371. Sudan.

212375. No. 2. Spain.

212376. C.P.I. 15510. Sudan.

212377. C.P.I. 15692. Ethiopia.

212378. C.P.I. 15892. Tanganyika.

212379. C.P.I. 16144. Sierra Leone.

212380. C.P.I. 16662. Southern Rhodesia.

212381. C.P.I. 16403. Nigeria.

212382. C.P.I. 16710. South Africa.

212383. C.P.I. 16711. South Africa.

**212384. CHLORIS LAMPROPARIA Stapf.**

C.P.I. 15374. Sudan.

**212385. CHLORIS PILOSA Schum.**

C.P.I. 15512. Sudan.

**212386. CHLORIS LAMPROPARIA Stapf.**

C.P.I. 17094. Nigeria.

**212387. CHLORIS PRIEURII Kunth.**

C.P.I. 15372. Sudan.

**212388. CHLORIS PYCNOTHRIX Trin.**

C.P.I. 15693. Ethiopia.



**212372 to 212391—Continued**

212389. *CHLORIS TRUNCATA* R. Br.

C. 357. Uriaria Crossing, Murrumbidgee River, Australia.

212390. *CHLORIS PILOSA* Schum. & Thonn.

C.P.I. 17095. Nigeria.

212391. *CHLORIS PILOSA* Schum. & Thonn.

C.P.I. 17096. Nigeria.

**212392 to 212397.**

From Florida. Plants growing at the United States Plant Introduction Garden, Coconut Grove. Numbered Jan. 20, 1954.

212392. *COFFEA ARABICA* L. Rubiaceae.

Arabian coffee.

*Bourbon*. From greenhouse, Washington, D.C., Mar. 16, 1926.

212393. *COFFEA ARABICA* var. *COLUMNARIS* Cramer.

Originally from Federal Experiment Station, Mayaguez, Puerto Rico, Nov. 28, 1925.

212394 and 212395. *COFFEA ARABICA* L.

212394. *Erecta*. From greenhouse, Washington, D.C., Mar. 16, 1926.

212395. *Leroy*. From greenhouse, Washington, D.C., Mar. 16, 1926.

212396. *COFFEA* sp.

Received as *C. dybowskii* from Washington, D.C., Dec. 12, 1925.

212397. *COFFEA EXCELSA* A. Chev.

From Washington, D.C., Dec. 12, 1925.

**212398 and 212399.**

From Germany. Scions presented by the Max Planck Institute, Voldagsen über Elze, Hannover. Received Jan. 20, 1954.

212398. *PRUNUS AVIUM* L. Amygdalaceae.

Sweet cherry.

*Primavera*. Very early, hardy; quality excellent.

212399. *PRUNUS DOMESTICA* L.

Common plum.

*Magna Glauca*. Fruits large; quality excellent.

212400. *CERCIS SILIQUASTRUM* L. Caesalpiniaceae.

From Spain. Seeds presented by E. A. Hollowell, United States Department of Agriculture. Received Jan. 21, 1954.

From Madrid.

212401. *ADESMIA* sp. Fabaceae.

From Chile. Seeds collected by E. E. Smith, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Jan. 21, 1954.

No. 53. Road to Banos de San Fernando, 19 miles beyond Puente Negro, Colchagua Province. Nov. 25, 1953. Perennial.

**212402 to 212405.**

From Chile. Tubers collected by E. E. Smith, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Jan. 25, 1954.

**212402 to 212405—Continued**

212402. *DIOSCOREA* sp. Dioscoreaceae.

No. 117. Playa Pucatrihue, west of Osorno, Osorno Province. Dec. 28, 1953. *Jabonaria*; *jabón de monte*; altitudes up to 100 feet. Some plants in beach sand.

212403. *DIOSCOREA* sp.

No. 121. Playa Pucatrihue, west of Osorno, Osorno Province. Jan. 3, 1954. River's edge in damp forest.

212404. *DIOSCOREA* sp.

No. 127. Morro Gonzalas, Corral, Valdivia, Valdivia Province. Jan. 7, 1954. *Jabonaria*.

212405. *DIOSCOREA* sp.

No. 130. Parque Nacional Nielol, Temuco, Cautín. Jan. 9, 1954. *Lengua de gato*. Tuber crown shaped.

**212406. ZEA MAYS L. Poaceae.****Corn.**

From Japan. Seeds presented by M. Furukawa, Nishiwaki City, Hyogo Prefecture. Received Jan. 25, 1954.

**212407 to 212445.**

From Iowa. Plants growing at the United States Regional Plant Introduction Station, Ames. Numbered Jan. 25, 1954.

Originally from Ohio Agricultural Experiment Station, Wooster, Ohio.

Localities given are original sources of seeds.

212407. *LYCOPERSICON PERUVIANUM* (L.) Mill. Solanaceae.

*Rick LA 102*. Seeds from the wild at Rio Supe, Peru.

212408 and 212409. *LYCOPERSICON PIMPINELLIFOLIUM* (Jusl.) Miller.

212408. *Rick LA 125*. Seeds from the wild at Río Supe, Peru.

212409. *DeZerpa 52-118*. Venezuela.

212410 and 212411. *LYCOPERSICON*.

212410. *L. esculentum* × *pimpinellifolium*.

*DeZerpa*. Venezuela.

212411. *L. esculentum* × *pimpinellifolium*.

*Burdick 038*. Agadir, Morocco.

212412 to 212440. *LYCOPERSICON ESCULENTUM* Mill.

212412 to 212415. Standard varieties.

212412. *Cavalier*.

212414. *Reynard 119*.

212413. *Doublerich*.

212415. *Reynard 54*.

212416 to 212424. Male steriles.

212416. *Rick 2-31*. *Pearson*.

212417. *Rick 2-89*. *San Marzano*.

212418. *Rick 2-121*. *San Marzano*.

212419. *Rick 2-132*. *San Marzano*.

212420. *Rick 2-165*. *San Marzano*.

212421. *Rick 2-175*. *Earliana*.

212422. *Rick LA 62*. *Pritchard*.

**212407 to 212445—Continued**212423. *Rick 2-225. Ace.*212424. *Rick 2-233. Cal-255.*

212425 to 212433. Gene tester lines.

212425. (*PAY G 1075*  $\times$  *Pennorange*)—18-22-7-17.212426. *PAY T585-18-M-3-M.*212427. *Lindstrom 2218-1-4-M.*212428. (*Pennorange*  $\times$  *Currence sterile*)—1-5-18-18.212429. *Pollack 1025-1-50 #17-168.*212430. *Rick LA 64.*212431. *Jenkins 767.*212432. *Dennett MU 12.*212433. Seed from *Burdick*  $\times$  21-1-31 *Rosette.*

212434 to 212440. Tetraploids, autotetraploids and autodiploids.

212434. *Stokesdale 7-1-M.*212435. *Stokesdale 7-2-M.*212436. *Break O'Day 16-2.*212437. *Break O'Day 28-3.*212438. *Rick San Marzano*, derived from haploid by colchicine treatment.212439. *Rick San Marzano.*212440. *Rick Pearson.*212441 to 212445. *LYCOPERSICON PIWPINELLIFOLIUM* (Jusl.) Miller.212441. *Burdick 216.*212444. *Burdick 236.*212442. *Burdick 227.*212445. *Burdick 237.*212443. *Burdick 230.***212446 to 212473. TRITICUM AESTIVUM L. Poaceae.****Common wheat.**

From Afghanistan. Seeds presented by H. L. Spence, Chief of Mission, Food and Agricultural Organization, Kabul. Received Jan. 26, 1954.

212446. *S-2 Djunubi.*212447. *S-9 Velajat, Djunubi.*212448. *S-10 Farah (Chakhan Sor.).*212449. *S-11 Farah (Chakhan Sor.).*212450. *S-14 Ghazni.*212451. *S-15 Ghazni.*212452. *S-17 Girishk.*212453. *S-18 Girishk.*212454. *S-19 Kissim, Herat.*212455. *S-22 Kandahar, Ukumat Nousad.*212456. *S-24 Ishkamish, Kataghan.*212457. *S-26 Kataghan.*212458. *S-30 Dehwirone, Khanabad, Kataghan.*

## 212446 to 212473—Continued

212459. S-31 Rostak, Kataghan.  
 212460. S-35 Maimana, Ukumat Bellcherajh.  
 212461. S-37 Miamana, Pushtun Kut.  
 212462. S-38 Miamana, Pushtun Kut.  
 212463. S-39 Maimana, Ankhoi.  
 212464. S-40 Maimana, Khaisar.  
 212465. S-41 Maimana, Khaisar.  
 212466. S-43 Makar, Alahkahdari Argandah.  
 212467. S-44 Mashraki, Ukumat Hezark.  
 212468. S-46 Mashraki, Ukumat Hezark.  
 212469. S-47 Mashraki, Sorch Rud.  
 212470. S-48 Mashraki, Ukumat Sorch.  
 212471. S-53 Origin unknown.  
 212472. S-55 Origin unknown.  
 212473. S-57 Origin unknown.

## 212474 to 212524.

From Sweden. Scions presented by E. Lenander, Statens Tradgardsforsok, Ranna Forsoksstation, Skovde, Ranna. Received Jan. 26, 1954.

## 212474 to 212510. PRUNUS AVIUM L. Amygdalaceae. Sweet cherry.

- |   |   |
|---|---|
| 212474. <i>Bankhardtskirsche.</i>             | 212493. <i>Merton Bounty.</i>                 |
| 212475. <i>Belle de September.</i>            | 212494. <i>Rodmersham Seedling.</i>           |
| 212476. <i>Bigarra Fran Kungslena.</i>        | 212495. <i>Roter Freiburg.</i>                |
| 212477. <i>Black Elton.</i>                   | 212496. <i>Rote Herzkirsche.</i>              |
| 212478. <i>Black Tartarian.</i>               | 212497. <i>Schubachs Frühe Schwarze.</i>      |
| 212479. <i>Braune.</i>                        | 212498. <i>Schneiders.</i>                    |
| 212480. <i>Cherry 6-10.</i>                   | 212499. <i>Schröders.</i>                     |
| 212481. <i>Doktorskirsche.</i>                | 212500. <i>Sparkle.</i>                       |
| 212482. <i>Elinelund.</i>                     | 212501. <i>Spiegelkirsche.</i>                |
| 212483. <i>Grosse Germersdorfer.</i>          | 212502. <i>Svarta Spanska.</i>                |
| 212484. <i>Heidelberger.</i>                  | 212503. <i>Svarta Tartariska.</i>             |
| 212485. <i>Hornobigarra II.</i>               | 212504. <i>Svarta Fran Loftahammar.</i>       |
| 212486. <i>Lamborn.</i>                       | 212505. <i>Samling Fran Heinrich Storkow.</i> |
| 212487. <i>Late Black.</i>                    | 212506. <i>Waterloo.</i>                      |
| 212488. <i>Lidingobigarra.</i>                | 212507. <i>Werdersche Markt.</i>              |
| 212489. <i>Lundins Bigarra; Fran Gotland.</i> | 212508. <i>Vita Spanska.</i>                  |
| 212490. <i>Merton Premier.</i>                | 212509. <i>Zum Feldes Frühe Schwarze.</i>     |
| 212491. <i>Merton Bigarra.</i>                | 212510. <i>Schwarze Herzkirsche.</i>          |
| 212492. <i>Merton Heart.</i>                  |   |



## 212474 to 212524—Continued

- 212511 to 212513. PRUNUS CERASUS L. Sour cherry.  
 212511. *Brunbar From Gastrikland.*  
 212512. *Korsos.*  
 212513. *La Poitvine.*  
 212514. × PRUNUS EFFUSA (Host.) Schneid. Duke cherry.  
*May Duke.*  
 212515. PRUNUS CERASUS L. Sour cherry.  
*Rogueda.*  
 212516 and 212517. × PRUNUS EFFUSA (Host.) Schneid. Duke cherry.  
 212516. *Rothe Mai.*  
 212517. *Royal Duke.*  
 212518 to 212524. PRUNUS CERASUS L. Sour cherry.  
 212518. *Brunbar Fran Blomberg.* 212522. *Sussweichsel Aus Olivet.*  
 212519. *Brunbar Fran Nuckelby.* 212523. *Van Der Natte.*  
 212520. *Rott Majkors.* 212524. *Visby Klarbar.*  
 212521. *Seever.*

## 212525 to 212583.

From Sweden. Scions presented by Ingvar Granhall, Fruit Breeding Station, Balsgard. Received Jan. 26, 1954.

- 212525 and 212526. PRUNUS AVIUM L. Amygdalaceae. Sweet cherry.  
 212525. *Allman Gulrod Bigarra.*  
 212526. *Altenlander Frühhirsche.*  
 212527. PRUNUS CERASUS L. Sour cherry.  
*Amarella Sklowidna.*  
 212528 to 212534. PRUNUS AVIUM L. Sweet cherry.  
 212528. *Brodtorps Bigarra.* 212532. *Eianne.*  
 212529. *Brysselska Bruna.* 212533. *Frogmore.*  
 212530. *Drojna Na.* 212534. *Fromme Herzkirsche.*  
 212531. *Durchsichtige Glas-kirsche.*  
 212535. PRUNUS CERASUS L. Sour cherry.  
*Griotte Kirchhelinski.*  
 212536 to 212552. PRUNUS AVIUM L. Sweet cherry.  
 212536. *Grosse Schwarze Herzkirsche.* 212544. *Königskirsche.*  
 212537. *Hative de Berny.* 212545. *Krassunja Schasi.*  
 212538. *Hedelfinger.* 212546. *Ljubskaja.*  
 212539. *Heinrichs Riesen.* 212547. *Majkors Fran Granna.*  
 212540. *Horno II Bigarra.* 212548. *Majkors Fran Ranna.*  
 212541. *Jubilejnana Michurina.* 212549. *Merton Bigarra.*  
 212542. *Kaiser Franz.* 212550. *Merton Bounty.*  
 212543. *Klarbar.* 212551. *Merton Heart.*  
 212552. *Minister Podbielsky.*

## 212525 to 212583—Continued

- 212553 and 212554. PRUNUS CERASUS L. Sour cherry.  
 212553. *Montmorency*.  
 212554. *Montmorency Korotkospilij*.
212555. PRUNUS AVIUM L. Sweet cherry.  
*Nadja Krupskaja*.
- 212556 and 212557. PRUNUS CERASUS L. Sour cherry.  
 212556. *Noir de Guben*.  
 212557. *Ostheimer*.
- 212558 to 212565. PRUNUS AVIUM L. Sweet cherry.  
 212558. *4x*. 212563. *Schrekens bigarra*.  
 212559. *Ranna Halvbigarra*. 212564. *Schwarze Knorpel-*  
*kirsche*.  
 212560. *Rannjaja Pruna*. 212565. *Schyrpotrep*.  
 212561. *Rote Herzkirsche*.  
 212562. *Roundel*.
212566. PRUNUS CERASUS L. Sour cherry.  
*Skuggmorelle*.
- 212567 to 212569. PRUNUS AVIUM L. Sweet cherry.  
 212567. *Sparhawk*.  
 212568. *Steckmans Bunte*.  
 212569. *Stor Svarta Bigarra*.
- 212570 to 212572. PRUNUS CERASUS L. Sour cherry.  
 212570. *Stora Klarbar*.  
 212571. *Ukrainische Griotte II*.  
 212572. *Vladimir*.
- 212573 to 212577. PRUNUS AVIUM L. Sweet cherry.  
 212573. *Walpurgis*. 212576. *Yellow Peck*.  
 212574. *Werderska Tidiga*. 212577. *Zuckerbunte*.  
 212575. *Wladimirskaja*.
- 212578 and 212579. PYRUS COMMUNIS L. Malaceae. Pear.  
 212578. *Bonne Louise*.  
 212579. *Comte de Chambord*.
212580. PRUNUS AVIUM L. Amygdalaceae. Sweet cherry.  
*Napoleon*.
- 212581 and 212582. PYRUS COMMUNIS L. Malaceae. Pear.  
 212581. *Pierre Corneille*.  
 212582. *Santa Claus*.
212583. MALUS SYLVESTRIS Mill. Malaceae. Apple.  
*Tallinnan Paarynaomena*.

**212584 and 212585.**

From France. Trees presented by A. Pajot, Gien (Loiret). Received Jan. 27, 1954.

212584. *PRUNUS PERSICA* (L.) Batsch. Amygdalaceae. **Peach.**

*Abricotee De Gien.*

212585. *PRUNUS PERSICA* var. *NECTARINA* (Ait.) Maxim. **Nectarine.**

*Precoce De Gien.*

**212586 to 212637.**

From Afghanistan. Seeds collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Jan. 27, 1954.

212486. *HIBISCUS ESCULENTUS* L. Malvaceae. **Okra.**

No. 13107. Market, Jalalabad. Nov. 18, 1953. Irrigated. Locally cultivated for table use.

212587. *ALLIUM CEPA* L. Liliaceae. **Onion.**

No. 13091. Market, Jalalabad. Nov. 18, 1953. Dark purple. Cultivated locally by irrigation.

212588 and 212589. *ALLIUM PORRUM* L. **Leek.**

212588. No. 13096. Market, Jalalabad. Nov. 18, 1953. Locally cultivated for table use.

212589. No. 13131. Market, Siraj, Eastern Province. Nov. 20, 1953. Local, rather short-leaved variety.

212590. *ANDROPOGON* sp. Poaceae.

No. 13133. Below Sarovie along road from Jalalabad to Kabul in narrow canyon. Nov. 20, 1953. Rather harsh perennial grass browsed by sheep and goats, growing in scattered bunches on steep granitic and schistose rocky shale slope. Altitude 3,000 feet.

212591. *ARISTIDA* sp. Poaceae.

No. 13116. Baghanemla, Jalalabad Province. Nov. 19, 1953. Perennial, coarse scarcely palatable xerophytic grass on sandstone hills.

212592. *BRASSICA OLERACEA* var. *CAPITATA* L. Brassicaceae. **Cabbage.**

No. 13103. Market, Jalalabad. Nov. 18, 1953. Variety with open leaves.

212593. *BRASSICA RAPA* L. **Turnip.**

No. 13108. Market, Jalalabad. Nov. 18, 1953. Local.

212594. *BRASSICA* sp.

No. 13098. Market, Jalalabad. Nov. 18, 1953. Seed used in pickling.

212595. *CICER ARIETINUM* L. Fabaceae. **Chickpea.**

No. 13095. Market, Jalalabad. Nov. 18, 1953. Locally cultivated.

212596. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. **Watermelon.**

No. 13102. Market, Jalalabad. Nov. 18, 1953. Mixed local seed.

212597. *CORIANDRUM SATIVUM* L. Apiaceae. **Coriander.**

No. 13082. Market, Jalalabad. Nov. 18, 1953. Cultivated locally.

212598. *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**

No. 13110. Market, Jalalabad. Nov. 18, 1953. Mixture of local forms.

## 212586 to 212637—Continued

212599. CUCUMIS SATIVUS. L.

Cucumber.

No. 13112. Market, Jalalabad. Nov. 18, 1953. Fruits reported to be 10–12 inches long.

212600. CUPRESSUS sp. Pinaceae.

Cypress.

No. 13117. Baghanemla, Jalalabad Province. Nov. 19, 1953. Large, symmetrical tree.

212601. DESCURAINIA SOPHIA (L.) Prantl. Brassicaceae.

No. 12777. Market, Faisabad. Oct. 13, 1953. Reported to be medicinal.

212602. ERAGROSTIS sp. Poaceae.

No. 13079. Jalalabad. Nov. 18, 1953. Rather coarse grass spontaneous in park around hotel. Altitude 2,000–3,000 feet.

212603. FICUS sp. Moraceae.

Fig.

No. 13115. Jalalabad. Nov. 18, 1953. Large spreading ornamental green tree with pale yellowish bark and large leaves with prominent veins and long tip.

212604 to 212606. GLYCINE MAX (L.) Merr. Fabaceae.

Soybean.

212604. No. 13100. Market, Jalalabad. Nov. 18, 1953. Small yellow variety grown locally by irrigation for table use.

212605. No. 13101. Market, Jalalabad. Nov. 18, 1953. Black bean grown by irrigation for table use.

212606. No. 13123. Momokhil, Jalalabad Province. Nov. 19, 1953. Small green bean cultivated on sandy soil.

212607. HORDEUM sp. Poaceae.

Barley.

No. 13094. Market, Jalalabad. Nov. 18, 1953. Irrigated locally.

212608. JUGLANS REGIA L. Juglandaceae.

Persian walnut.

No. 13132. Market, Siraj, Eastern Province. Nov. 20, 1953.

212609 to 212611. LENS CULINARIS Medic. Fabaceae.

Lentil.

212609. No. 13088. Market, Jalalabad. Nov. 18, 1953. Variety with small black seeds, locally cultivated.

212610. No. 13092. Market, Jalalabad. Nov. 18, 1953. Local variety with lavender seeds.

212611. No. 13128. Market, Siraj, Eastern Province. Nov. 20, 1953. Local, black-seeded.

212612. MEDICAGO SATIVA L. Fabaceae.

Alfalfa.

No. 13099. Market, Jalalabad. Nov. 18, 1953. Irrigated in terraced fields.

212613. ORYZA SATIVA L. Poaceae.

Rice.

No. 13121. Momokhil, Jalalabad Province. Nov. 19, 1953. Locally cultivated.

212614. PHASEOLUS AUREUS Roxb. Fabaceae.

Mung bean.

No. 13120. Momokhil, Jalalabad Province. Nov. 19, 1953. Cultivated by irrigation on silty alluvial soil.

212615. PHASEOLUS MUNGO L.

Urd.

No. 13090. Market, Jalalabad. Nov. 18, 1953. Locally cultivated and cooked with rice.



## 212586 to 212637—Continued

- 212616 and 212617. *PHASEOLUS VULGARIS* L. Common bean.  
 212616. No. 13084. Market, Jalalabad. Nov. 18, 1953. Red and black bean, grown by irrigation.  
 212617. No. 13126. Market, Siraj, Eastern Province. Nov. 20, 1953. Red bean grown by irrigation.
212618. *PLANTAGO OVATA* Forsk. Plantaginaceae.  
 No. 12768. Market, Faisabad, Badakhshan Province. Oct. 13, 1953. From the mountains; seeds used as medicine with sugar and water; as for boils.
212619. *QUERCUS* sp. Fagaceae. Oak.  
 No. 13125. Siraj, Eastern Province. Nov. 20, 1953. Sold in market as feed for monkeys.
- 212620 and 212621. *RAPHANUS SATIVUS* L. Brassicaceae. Radish.  
 212620. No. 13081. Market, Jalalabad. Nov. 18, 1953. Large top and large bent white root 7-9 inches long.  
 212621. No. 13127. Market, Siraj, Eastern Province. Nov. 20, 1953. White
- 212622 and 212623. *SESAMUM INDICUM* L. Pedaliaceae. Sesame.  
 212622. No. 13086. Market, Jalalabad. Nov. 18, 1953. Variety with dark brown seeds; irrigated.  
 212623. No. 13130. Market, Siraj, Eastern Province. Nov. 20, 1953. Black-seeded variety grown by irrigation.
212624. *SESBANIA* sp. Fabaceae.  
 No. 13118. Baghanemla, Jalalabad Province. Nov. 19, 1953. Spontaneous annual about 4 feet high.
212625. *SETARIA* sp. Poaceae.  
 No. 13083. Market, Jalalabad. Nov. 18, 1953. Cultivated for bird seed.
212626. *SETARIA* sp.  
 No. 13093. Market, Jalalabad. Nov. 18, 1953. Locally cultivated.
212627. *SOLANUM MELONGENA* L. Solanaceae. Eggplant.  
 No. 13111. Market, Jalalabad. Nov. 18, 1953. Fruit elongate.
212628. *THUJA ORIENTALIS* L. Pinaceae. Oriental arborvitae.  
 No. 13080. Jalalabad. Nov. 18, 1953. Symmetrical bushy tree cultivated as ornamental.
212629. *TRIFOLIUM RESUPINATUM* L. Fabaceae. Persian clover.  
 No. 13104. Market, Jalalabad. Nov. 18, 1953. Irrigated; grown for forage.
- 212630 to 212633. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.  
 212630. No. 13087. Market, Jalalabad. Nov. 18, 1953. Irrigated; spring type.  
 212631. No. 13109. Market, Jalalabad. Nov. 18, 1953. Winter wheat irrigated on terraced gray alluvial soils.  
 212632. No. 13122. Momokhil, Jalalabad Province. Nov. 19, 1953. Irrigated winter wheat grown on terraced silty to sandy soil.  
 212633. No. 13129. Market, Seraj, Eastern Province. Nov. 20, 1953. Irrigated winter wheat.

**212586 to 212637—Continued**

212634. *VICIA ERVILIA* (L.) Willd. Fabaceae. Vetch.

No. 13106. Market, Jalalabad. Nov. 18, 1953. Grown by irrigation for table use.

212635. *VIGNA SINENSIS* (Torner) Savi. Fabaceae. Cowpea.

No. 13085. Market, Jalalabad. Nov. 18, 1953. Small yellowish bean grown locally by irrigation for table use.

212636. *VIGNA* sp.

No. 13105. Market, Jalalabad. Nov. 18, 1953. Small red bean grown by irrigation locally for table use.

212637. *ZEA MAYS* L. Poaceae. Corn.

No. 13119. Momokhil, Jalalabad Province. Nov. 19, 1953. Small corn with slender stalk, but larger than average.

**212638 and 212639.**

From Iran. Seeds presented by H. C. Lint, American Embassy, Tehran. Received Feb. 5, 1954.

212638. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. Watermelon.

212639. *CUCUMIS MELO* L. Cucurbitaceae. Muskmelon.

**212640. *NASSELLA* sp. Poaceae.**

From Chile. Seeds collected by E. E. Smith, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Feb. 5, 1954.

No. 56. Road to the Baños de San Fernando. Nov. 25, 1953. Perennial grass, still green while all other grasses of the area were dried up.

212641. *PIPER NIGRUM* L. Piperaceae. Black pepper.

From India. Cuttings collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Jan. 27, 1954.

No. 13493. *Kalluvalli*. Balmane Estate, twenty miles east of Virajpet, Coorg. Jan. 17, 1954. Perennial vine.

212642. *MELALEUCA LINARIIFOLIA* J. E. Sm. Myrtaceae.

From Australia. Seeds collected by R. E. F. Constable, Botanic Gardens, Sydney, New South Wales. Received Jan. 28, 1954.

212643. *MALUS SPECTABILIS* (Ait.) Borkh. Malaceae.

From Maryland. Plant growing at the United States Plant Introduction Garden, Glenn Dale. Numbered Jan. 27, 1954.

*Clarkes Flowering Crab.*

212644 to 212651. *PRUNUS AMYGDALUS* Batsch. Amygdalaceae. Almond.

From Italy. Scions presented by the Vivais Governativo Di Viti Americane, Palermo. Received Jan. 27, 1954.

212644. *Ascinetto Grosso.*

212648. *Mollesa Grosso.*

212645. *Ascinetto Piccolo.*

212649. *Nocellara.*

212646. *Confettara.*

212650. *Rascio Scelta.*

212647. *Mollesa.*

212651. *Romana.*

## 212652 to 212793.

From the Netherlands. Scions presented by the Institute of Horticultural Plant Breeding, Wageningen. Received Jan. 28, 1954.

212652 to 212783. PRUNUS AVIUM L. Amygdalaceae. Sweet cherry.

212652. <i>Alba Heart.</i>	212689. <i>Donnissen's Gelbe Knorpel.</i>
212653. <i>Alfheim.</i>	212690. <i>Drogan's Gelbe Knorpel.</i>
212654. <i>Baumans May A.</i>	212691. <i>Early Bichenhayes.</i>
212655. <i>Bedford Prolific A.</i>	212692. <i>Early Cluster.</i>
212656. <i>Bedford Prolific B.</i>	212693. <i>Early Lamaurae.</i>
212657. <i>Beekse Late.</i>	212694. <i>Early Rivers.</i>
212658. <i>Biesker.</i>	212695. <i>Elton Heart.</i>
212659. <i>Bigarreau de Schrecken.</i>	212696. <i>Florence.</i>
212660. <i>Bigarreau Goucher.</i>	212697. <i>Frogmore Early.</i>
212661. <i>Bigarreau Jaboulay.</i>	212698. <i>Früheste Der Mark.</i>
212662. <i>Bigarreau Reverchon B.</i>	212699. <i>Gendtse.</i>
212663. <i>Black Dounton.</i>	212700. <i>Goodnestone Black.</i>
212664. <i>Black Elton.</i>	212701. <i>Grevense.</i>
212665. <i>Black Olive.</i>	212702. <i>Grosse Royale Native.</i>
212666. <i>Blankette.</i>	212703. <i>Grosser Gobet.</i>
212667. <i>Bohemian Black.</i>	212704. <i>Ham Green Black.</i>
212668. <i>Bolium.</i>	212705. <i>Hasseltse.</i>
212669. <i>Bowyer Heart.</i>	212706. <i>Hofkers.</i>
212670. <i>Bradbourne Black.</i>	212707. <i>Hollander.</i>
212671. <i>Bruine Bigarreau.</i>	212708. <i>Hooker's Black.</i>
212672. <i>Bruine Blanche.</i>	212709. <i>Kassin's Frühe.</i>
212673. <i>Bruine Vleeskers.</i>	212710. <i>Kernielse.</i>
212674. <i>Bullocks Heart.</i>	212711. <i>Kinderkers.</i>
212675. <i>Burcombe.</i>	212712. <i>Klein Appeltje.</i>
212676. <i>Buttner's Späte Rote Norpel.</i>	212713. <i>Klerk.</i>
212677. <i>Capucien.</i>	212714. <i>Knight's Bigarreau.</i>
212678. <i>Carnation C.</i>	212715. <i>Knight's Early Black B.</i>
212679. <i>Cartuyvels.</i>	212716. <i>Koningskers.</i>
212680. <i>Schone von Chataney.</i>	212717. <i>Korosel Weichsel.</i>
212681. <i>Corone A.</i>	212718. <i>Kraaibek.</i>
212682. <i>Corone B.</i>	212719. <i>Lamotte.</i>
212683. <i>Cryall's Seedling.</i>	212720. <i>Late Black Bigarreau.</i>
212684. <i>Cuvelier.</i>	212721. <i>Late Bruine.</i>
212685. <i>Dangler.</i>	212722. <i>Late Kraker.</i>
212686. <i>Diemitzer Amarelle.</i>	212723. <i>Lester.</i>
212687. <i>Dikke Waalse.</i>	212724. <i>Licveling.</i>
212688. <i>Dikkeloën.</i>	212725. <i>Lindeboomkers.</i>



## 212652 to 212793—Continued

- |   |   |
|---|---|
| 212726. <i>Longley's Black Eagle.</i>                           | 212755. <i>Smoky Dun.</i>                     |
| 212727. <i>Lukker.</i>  | 212756. <i>Smoky Heart.</i>                   |
| 212728. <i>Lulsley Early Black.</i>                             | 212757. <i>Spaanse Wijnkers.</i>              |
| 212729. <i>Maidens Blush.</i>                                   | 212758. <i>Spaanse Zwarte.</i>                |
| 212730. <i>Mauling Black Eagle.</i>                             | 212759. <i>Sprenkelkers.</i>                  |
| 212731. <i>Meikers.</i>   | 212760. <i>Strawberry Heart.</i>              |
| 212732. <i>Mill's Seedling.</i>                                 | 212761. <i>Sutton's Prolific.</i>             |
| 212733. <i>Molenkers.</i>                                       | 212762. <i>Turkey Heart.</i>                  |
| 212734. <i>Morel.</i>   | 212763. <i>Turkish Black.</i>                 |
| 212735. <i>Newington Late Black.</i>                            | 212764. <i>Udense Spaanse.</i>                |
| 212736. <i>Noble.</i>   | 212765. <i>Ursula Rivers.</i>                 |
| 212737. <i>Noir De Guben.</i>                                   | 212766. <i>Vacke's Weichsel.</i>              |
| 212738. <i>Norbury's Early Black.</i>                           | 212767. <i>Varikse Zwarte.</i>                |
| 212739. <i>Nutberry Black.</i>                                  | 212768. <i>Vroege van Bingelrade.</i>         |
| 212740. <i>Old Black Heart A.</i>                               | 212769. <i>Vroege van de Rijns-<br/>loot.</i> |
| 212741. <i>Ossenkop.</i>  | 212770. <i>Vroege van Gelmen.</i>             |
| 212742. <i>Peter van Mansfield.</i>                             | 212771. <i>Vroege van Spithoven.</i>          |
| 212743. <i>Pitchers Black.</i>                                  | 212772. <i>Waterloo.</i>                      |
| 212744. <i>Pointed Heart.</i>                                   | 212773. <i>Wellington A.</i>                  |
| 212745. <i>Poolse.</i>  | 212774. <i>Wellington B.</i>                  |
| 212746. <i>Portugees.</i>                                       | 212775. <i>West Midlands Bigar-<br/>reau.</i> |
| 212747. <i>Puntkers.</i>  | 212776. <i>Wijnkers.</i>                      |
| 212748. <i>Reis Black.</i>                                      | 212777. <i>Wilhelmina.</i>                    |
| 212749. <i>Rijmaker.</i>  | 212778. <i>Wimmartingse.</i>                  |
| 212750. <i>Rode Blanche.</i>                                    | 212779. <i>Witte Bigarreau.</i>               |
| 212751. <i>Rodmersham Seedling.</i>                             | 212780. <i>Yates Seedling.</i>                |
| 212752. <i>Ronald's Heart.</i>                                  | 212781. <i>Zoete Morel.</i>                   |
| 212753. <i>Roundel Heart.</i>                                   | 212782. <i>Zuurtje.</i>                       |
| 212754. <i>Schneider's Spate Knor-<br/>pel.</i>                 | 212783. <i>Zwarte Vleeskers.</i>              |
| 212784 to 212787. <i>PRUNUS CERASUS L.</i>                      | <b>Sour cherry.</b>                           |
| 212784. <i>Coe's Late Carnation B.</i>                          | 212786. <i>Kentish Red A.</i>                 |
| 212785. <i>Kentish.</i>   | 212787. <i>Wye Morello.</i>                   |
| 212788 to 212793. $\times$ <i>PRUNUS EFFUSA (Host) Schneid.</i> | <b>Duke cherry.</b>                           |
| 212788. <i>Belle De Choisy.</i>                                 | 212791. <i>Olivet.</i>                        |
| 212789. <i>Empress Eugenie.</i>                                 | 212792. <i>Reine Hortense.</i>                |
| 212790. <i>May Duke.</i>  | 212793. <i>Ronald's Late Duke.</i>            |



**212794 and 212795.**

From Virginia. Seeds collected by Dr. Orland E. White, University of Virginia, Charlottesville. Received Jan. 28, 1954.

212794. *PRUNUS DOMESTICA* L. Amygdalaceae.

Common plum.

Collected in Palermo, Italy. Firm-fleshed and of good flavor.

212795. *RUBUS* sp. Rosaceae.

Collected in the Atlas Mountains, Asni, Morocco. A wild blackberry, bearing numerous small fruits during hot, dry weather.

**212796 and 212797.**

From Chile. Rhizomes collected by E. E. Smith, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Jan. 28, 1954.

212796. *DIOSCOREA* sp. Dioscoreaceae.

No. 133. Two miles below hotel along road, Termas De Chillan, Nuble Province. Jan. 16, 1954.

212797. *SOLANUM TUBEROSUM* L. Solanaceae.

Potato.

No. 136. Gruta de los Pangues, 4 miles below hotel on road to Termas de Chillán, Nuble Province. Jan. 16, 1954. Altitude 4,200 feet.

**212798. *MEDICAGO SATIVA* L. Fabaceae.**

Alfalfa.

From Iran. Seeds presented by Henry C. Lint, Agricultural Attaché, American Embassy, Tehran. Received Jan. 28, 1954.

Collected by Ordeal Kirk of the Agricultural Experiment Sub-station, Ogden, Utah.

**212799. *SOLANUM VERNEI* Bitter & Wittm. Solanaceae.**

From Germany. Seeds presented by the Institut für Hackfruchtbau, Westfalen. Received Jan. 28, 1954.

**212800 to 212806.**

From India. Seeds presented by R. S. Asana, Indian Agricultural Research Institute, New Delhi. Received Jan. 28, 1954.

212800. *ANDROPOGON ANNULATUS* Forsk. Poaceae.

212801. *ANDROPOGON FOVEOLATUS* Delile.

212802. *BOTHRIODCHLOA PERTUSA* (L.) A. Camus. Poaceae.

212803. *CUCUMIS MELO* L. Cucurbitaceae.

Muskmelon.

212804. *CUCUMIS* sp.

212805. *CUCUMIS TRIGONUS* Roxb.

212806. *INDIGOFERA TINCTORIA* L. Fabaceae.

**212807 to 212819.**

From India. Seeds presented by R. P. Celarier, Oklahoma Agricultural and Mechanical College, Stillwater.

Originally from a nursery in Assam.

212807. *ANDROPOGON* sp. Poaceae.

A-3925.

212808. *ANDROPOGON* sp.

A-3929.

**212807 to 212819—Continued**

212809. *ANDROPOGON* sp.  
A-3930.
212810. *ANDROPOGON* sp.  
A-3931.
212811. *ANDROPOGON* sp.  
A-3933.
212812. *ANDROPOGON* sp.  
A-3935.
212813. *ANDROPOGON* sp.  
A-3936.
212814. *ANDROPOGON* sp.  
A-3937.
212815. *ANDROPOGON* sp.  
A-3938.
212816. *DIECTONIS* sp. Poaceae.  
A-3927.
212817. *HETEROPOGON* sp. Poaceae.  
A-3924.
212818. *HETEROPOGON* sp.  
A-3929.
212819. *STIPA* sp. Poaceae.  
A-3934.

**212820 and 212821. *TRITICUM AESTIVUM* L. Poaceae.****Common wheat.**

From Uruguay. Heads collected by José Meneses Barrera, Montevideo. Received Jan. 29, 1954.

212820. No. 1.

212821. No. 2.

**212822 to 212827.**

From Pakistan. Seeds presented by R. M. Snyder, United States Operations Mission, American Embassy, Karachi. Received Jan. 29, 1954.

212822. *FRAXINUS XANTHOXYLOIDES* (G. Don) Wall. Oleaceae. Ash.212823. *NANNORRHOPS RITCHIEANA* (Griffith) Wendl. Phoenicaceae. Palm.212824. *OLEA FERRUGINEA* Royle. Oleaceae.212825. *PISTACIA KHINJUK* Stocks. Anacardiaceae.212826. *PISTACIA VERA* L.

Pistachio.

212827. *PRUNUS EBURNEA* (Spach) Aitch. Amygdalaceae.**212828 to 212842. *TRITICUM AESTIVUM* L. Poaceae.****Common wheat.**

From Iran. Seeds presented by Dr. H. Kuckuck, Tehran. Received Feb. 1, 1954.

212828. No. 193. Djahrom.

**212828 to 212842—Continued**

212829. No. 194. Schiraz.  
 212830. No. 195. Darab.  
 212831. No. 227c. Navay, on road to Marand-Koy.  
 212832. No. 249n. Gindergache, 6 miles from Merabad.  
 212833. No. 275b. Chaluz, South Karadj.  
 212834 to 212842. From Rizaiyeh.
- |                   |                   |
|-------------------|-------------------|
| 212834. No. 293a. | 212839. No. 293f. |
| 212835. No. 293b. | 212840. No. 293g. |
| 212836. No. 293c. | 212841. No. 293h. |
| 212837. No. 293d. | 212842. No. 293i. |
| 212838. No. 293e. |                   |

**212843 to 212873.**

From Afghanistan. Seeds presented by H. L. Spence, Chief of Mission, Foreign Agricultural Organization, Kabul. Received Feb. 1, 1954.

212843. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.  
 From Kataghan.
212844. HORDEUM sp. Poaceae. Barley.  
 No. 1.
212845. HORDEUM sp.  
 Afghan.
212846. HORDEUM sp.  
 No. 2.
212847. HORDEUM sp.  
 B 200.
212848. HORDEUM sp.  
 B 204.
212849. HORDEUM sp.  
 214/30.
212850. HORDEUM sp.  
 217/30.
212851. HORDEUM sp.  
 557.
212852. HORDEUM sp.  
 570.
212853. HORDEUM sp.  
 573.
212854. HORDEUM sp.  
 576.
212855. HORDEUM sp.  
 From Bandiamir.
212856. HORDEUM sp.  
 No. 3.

## 212843 to 212873—Continued

212857. *LINUM USITATISSIMUM* L. Linaceae. Flax.  
 212858 to 212861. *MEDICAGO SATIVA* L. Fabaceae. Alfalfa.  
     212858. From Bamian.                      212860. From Ghasin.  
     212859. From Bandiamir.                  212861. From Ghorbaud.  
 212862. *PANICUM MILIACEUM* L. Poaceae. Proso.  
 212863. *PHASEOLUS AUREUS* Roxb. Fabaceae. Mung bean.  
     From Gmamsahib.  
 212864 and 212865. *TRIFOLIUM RESUPINATUM* L. Fabaceae. Persian clover.  
     212864. From Ghasin.  
     212865. From Kohdamau.  
 212866 to 212871. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.  
     212866. From Bandiamir.                  212869. No. 1.  
     212867. From Ishkamish.                  212870. No. 2.  
     212868. From Shibar.                      212871. No. 3.  
 212872. *VICIA ERVILIA* (L.) Willd. Fabaceae.  
 212873. *ZEA MAYS* L. Poaceae. Corn.  
 212874 to 212877. *IPOMOEA BATATAS* (L.) Lam. Convolvulaceae. Sweetpotato.  
 From Okinawa. Tubers presented by Tatsuo Saito, United States Civil Administration of the Ryukyus, Naha. Received Feb. 2, 1954.  
     Bred in the Ryukyu Islands.  
     212874. *Hanayakabi*.                      212876. *Okinawa No. 100*.  
     212875. *Hisagawa No. 1*.                  212877. *Yaeyama-akagu*.  
 212878 to 212932.  
 From India. Seeds collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Section, Beltsville, Md. Received Feb. 2, 1954.  
 212878. *HIBISCUS ESCULENTUS* L. Malvaceae. Okra.  
     No. 13379. *Bhinda*. Market, Baroda, Bombay State; clay loam. Long tapering fruits. Dec. 22, 1953.  
 212879. *ACTINODAPHNE HOOKERI* Meissn. Lauraceae.  
     No. 13286. *Pisa*. Market, Mahabaleshwar, Bombay State. Dec. 15, 1953. Altitude 4,500 feet. Seeds stated to contain 80 percent oil.  
 212880. *ALLIUM CEPA* L. Liliaceae. Onion.  
     No. 13378. *Dungali*. Market, Baroda, Bombay State. Local. Dec. 22, 1953.  
 212881. *AMARANTHUS* sp. Amaranthaceae.  
     No. 13324. *Rygira*. Agricultural College farm, Poona, Bombay. Dec. 17, 1953. Used as a leaf vegetable, and seeds are roasted and eaten.  
 212882. *ARACHIS*. Fabaceae.  
     No. 13191. Dharwar Agriculture College, Dharwar, Bombay State. Dec. 11, 1953. Erect type  $\times$  procumbent type; developed by Mysore Agriculture Station as a leaf forage.



## 212878 to 212932—Continued

212883 and 212884. *BETA VULGARIS* L. Chenopodiaceae. Beet.

212883. No. 13322. *Palak*. Agriculture College farm, Poona, Bombay State. Dec. 17, 1953. Cooked for greens.

212884. No. 13369. *Palak*. Market, Baroda, Bombay State. Dec. 22, 1953. Leaves used for greens.

212885. *CAJANUS CAJAN*. (L.) Druce. Fabaceae. Pigeonpea.

No. 13375. Market, Baroda, Bombay State. Dec. 22, 1953. Planted in alternate rows with other crops.

212886 and 212887. *CARTHAMUS TINCTORIUS* L. Asteraceae. Safflower.

212886. No. 13320. Agriculture College farm, Poona, Bombay State. Dec. 17, 1953. Winter crop. Used as a leafy vegetable; seeds used for oil.

212887. No. 13367. Market, Baroda, Bombay State. Dec. 22, 1953. Young leaves used as a fresh vegetable, and seeds used for oil.

212888. *CELOSIA* sp. Amaranthaceae.

No. 13428. Baroda, Bombay State. Dec. 23, 1953. Ornamental annual with red fasciations.

212889. *CELOSIA* sp.

No. 13429. Baroda, Bombay State. Dec. 23, 1953. A yellow cockscomb.

212890 to 212893. *CICER ARIETINUM* L. Fabaceae. Chickpea.

212890. No. 13156. Dharwar, Bombay State. Dec. 9, 1953. Local improved variety.

212891. No. 13157. Dharwar, Bombay State. Dec. 8, 1953. Local improved variety called *Chaffa*.

212892. No. 13271. Market, Mahabaleshwar, Bombay. Dec. 15, 1953.

212893. No. 13313. Agriculture College farm, Poona, Bombay. Dec. 17, 1953. Dry-farmed, planted in October and November.

212894. *COCCINEA INDICA* Wight & Arn. Cucurbitaceae.

No. 13261. Poona Agriculture College, Poona, Bombay State. Dec. 14, 1953. Vine cultivated for its small edible fruits, cooked like squash.

212895. *CUCUMIS MELO* L. Cucurbitaceae. Muskmelon.

No. 13388. Market, Baroda, Bombay State. Dec. 22, 1953. Fruits small, narrow, brindled.

212896. *CUCUMIS SATIVUS* L. Cucurbitaceae. Cucumber.

No. 13389. Market, Baroda, Bombay State. Dec. 22, 1953. Fruits long.

212897. *CUCUMIS* sp.

No. 13356. Market, Baroda, Bombay State. Dec. 22, 1953. Vine spontaneous along margins of fields.

212898. *CUCUMIS* sp.

No. 13405. Baroda, Bombay State. Dec. 23, 1953. Annual vine with yellow flowers.

212899. *CUCURBITA MOSCHATA* Duchesne. Cucurbitaceae. Cushaw.

No. 13474. Market, Baroda, Bombay State. Dec. 22, 1953.

212900. *CYAMOPSIS TETRAGONOLOBA* (L.) Taub. Fabaceae. Guar.

No. 13257. Poona, Bombay State. Dec. 14, 1953. Pods eaten as a vegetable when young and tender.

## 212878 to 212932—Continued

212901. *DOLICHOS LABLAB* L. Fabaceae. Hyacinth-bean.  
No. 13349. Market, Baroda, Bombay State. Dec. 22, 1953.
212902. *ELETTARIA CARDAMOMUM* (L.) Maton. Zingiberaceae. Cardamom.  
No. 13341. *Ela-ichi*. Market, Baroda, Bombay State. Dec. 22, 1953.  
From Southern localities.
- 212903 and 212904. *LENS CULINARIS* Medic. Fabaceae. Lentil.  
212903. No. 13288. Market, Mahabaleshwar, Bombay. Dec. 15, 1953.  
Large lavender lentil.  
212904. No. 13355. *Masur*. Market, Baroda, Bombay State. Dec. 22, 1953.
212905. *MELOTHRIA* sp. Cucurbitaceae.  
No. 13300. Panchigani, along road from Poona to Mahabaleshwar, Bombay. Dec. 15, 1953. Vine with small hispid striped green fruits 2 inches long.
212906. *PASPALUM* sp. Poaceae.  
No. 13212. Tegur farm 16 miles north of Dharwar, Bombay State. Dec. 11, 1953. Erect.
- 212907 and 212908. *PHASEOLUS AUREUS* Roxb. Fabaceae. Mung bean.  
212907. No. 13278. Market, Mahabaleshwar, Bombay. Dec. 15, 1953.  
Altitude 4,500 feet.  
212908. No. 13345. Market, Baroda, Bombay State. Dec. 22, 1953.
- 212909 and 212910. *PHASEOLUS MUNGO* L. Urd.  
212909. No. 133316. *Udid*. Agriculture College farm, Poona, Bombay State. Dec. 17, 1953. Planted in June; harvested in November.  
212910. No. 13352. *Arad*. Market, Baroda, Bombay State. Dec. 22, 1953. Beans flaked and mixed with oil, then baked or fried.
- 212911 to 212914. *PHASEOLUS VULGARIS* L. Common bean.  
212911. No. 13273. Market, Mahabaleshwar, Bombay. Dec. 15, 1953.  
Altitude 4,500 feet. Local black bean.  
212912. No. 13277. Market, Mahabaleshwar, Bombay. Dec. 15, 1953.  
Large brindled bean.  
212913. No. 13284. Market, Mahabaleshwar, Bombay. Dec. 15, 1953.  
Altitude 4,500 feet. Local white bean.  
212914. No. 13318. Agriculture College farm, Poona, Bombay State. Dec. 17, 1953. Altitude 200 feet. An improved string bean, tender.
- 212915 to 212918. *PISUM SATIVUM* L. Fabaceae. Pea.  
212915. No. 13282. Market, Mahabaleshwar, Bombay. Dec. 15, 1953.  
Garden pea, tall, poled, grown through fall for table use.  
212916. No. 13287. Market, Mahabaleshwar, Bombay. Dec. 15, 1953.  
Fall pea cultivated for table use in December.  
212917. No. 13348. *Vatana Matar*. Market, Baroda, Bombay State. Dec. 22, 1953. Near sea level.  
212918. No. 13377. Market, Baroda, Bombay State. Dec. 22, 1953. Near sea level.
212919. *RAPHANUS SATIVUS* L. Brassicaceae. Radish.  
No. 13387. *Muhra*. Market, Baroda, Bombay State. Dec. 22, 1953. Large white root.

**212878 to 212932—Continued**

212920. *SAPINDUS MUKOROSI* Gaertn. Sapindaceae.

No. 13358. Market, Baroda, Bombay State. Dec. 22, 1953.

212921. *SPINACIA OLERACEA* L. Chenopodiaceae.

**Common spinach.**

No. 13370. Market, Baroda, Bombay State. Dec. 22, 1953.

212922 and 212923. *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae. **Fenugreek.**

212922. No. 13289. Market, Mahabaleshwar, Bombay. Dec. 15, 1953.  
Used as a leafy vegetable.

212923. No. 13353. Market, Baroda, Bombay State. Dec. 22, 1953.  
Clay loam soils near sea level. Annual leafy herb eaten as greens;  
beans also fried and eaten.

212924 and 212925. *TRITICUM AESTIVUM* L. Poaceae. **Common wheat.**

212924. No. 13153. *Kenphad*. Dharwar, Bombay State. Dec. 9, 1953.  
Rust-resistant wheat developed in India.

212925. No. 13285. Market, Mahabaleshwar, Bombay. Dec. 15, 1953.  
Altitude 4,500 feet. Winter wheat. Stem rust locally common, but this  
shows no infection.

212926. *VICIA ERVILIA* (L.) Willd. Fabaceae.

**Vetch.**

No. 13283. Market, Mahabaleshwar, Bombay. Dec. 15, 1953.

212927 to 212931. *VIGNA SINENSIS* (Torner) Savi. Fabaceae. **Cowpea.**

212927. No. 13290. Market, Mahabaleshwar, Bombay. Dec. 15, 1953.  
Altitude 4,500 feet.

212928. No. 13347. *Charela*. Market, Baroda, Bombay State. Dec. 22,  
1953. Clay loam soil, near sea level.

212929. No. 13376. *Chali*. Market, Baroda, Bombay State. Dec. 22,  
1953. Clay loams near sea level.

212930. No. 13384. *Chali*. Market, Baroda, Bombay State. Dec. 22,  
1953. Clay loams near sea level.

212931. No. 13385. *Chali*. Market, Baroda, Bombay State. Dec. 22,  
1953. Clay loam, near sea level.

212932. *ZIZIPHUS MAURITIANA* Lam. Rhamnaceae.

No. 13340. Market, Baroda, Bombay State. Dec. 22, 1953. Local fruit  
tree; fruits eaten raw.

**212933. GLYCYRRHIZA** sp. Fabaceae.

**Licorice.**

From Greece. Plants presented by the Greek Ministry of Agriculture, Experimental Station of Forage and Vegetable Breeding, Larissa. Received Feb. 10, 1954.

**212934 to 212959.**

From Spain. Seeds presented by Dr. R. P. Calvet, Instituto Nacional de Investigaciones Agronomicas, Madrid. Received Feb. 2, 1954.

212934. *MEDICAGO ARBOREA* L. Fabaceae.

212935. *MEDICAGO ASCHERSONIANA* Urban.

212936. *MEDICAGO CARSTIENSIS* Wulf.

212937. *MEDICAGO CRETACEA* Bieb.

212938. *MEDICAGO DECANDOLLEI* Tineo.

212939. *MEDICAGO DISCIFORMIS* DC.

212940. *MEDICAGO FALCATA* L.



## 212934 to 212959—Continued

- 212941. *MEDICAGO HISPIDA* Gaertn.
- 212942. *MEDICAGO HISPIDA* var. *DENTICULATA* (Willd.) Urban.
- 212943. *MEDICAGO LACINIATA* (L.) Mill.
- 212944. *MEDICAGO LUPULINA* L.
- 212945. *MEDICAGO MINIMA* (L.) Grufberg.
- 212946. *MEDICAGO MURICATA* (L.) All.
- 212947. *MEDICAGO ORBICULARIS* (L.) All.
- 212948. *MEDICAGO PRAECOX* DC.
- 212949. *MEDICAGO PROSTRATA* Jacq.
- 212950. *MEDICAGO RIGIDULA* (L.) Desr.
- 212951. *MEDICAGO SATIVA* L.
- 212952. *MEDICAGO SCUTELLATA* (L.) Mill.
- 212953. *MEDICAGO STRIATA* Bast.
- 212954. *MEDICAGO SUFFRUTICOSA* Ramond.
- 212955. *MEDICAGO TENOREANA* Seringe.
- 212956. *MEDICAGO TRUNCATULA* Gaertn.
- 212957. *MEDICAGO TUBERCULATA* (Retz.) Willd.
- 212958. *MEDICAGO TURBINATA* (L.) All.
- 212959. *MEDICAGO* sp.

## 212960 to 212967.

From India. Collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md.

- 212960. *CITRUS AURANTIFOLIA* (Christm.) Swingle. Rutaceae. Lime.

No. 13517. Kottayam, Travancore-Cochin State. Jan. 22, 1954. Thin-skinned sour lime. (Seeds.)

- 212961 to 212967. *PIPER NIGRUM* L. Piperaceae. Black pepper.

212961 and 212962. From Perumila Tea Estate, Konni, Travancore-Cochin State. Jan. 21, 1954. (Cuttings.)

212961. No. 13510. Low, caespitose, spreading bush 16–20 inches tall; 6–8 inches broad, not climbing; perfect flowers; berries pungent.

212962. No. 13511. *Kotanadan*. Climbing vine with rather small, broadly ovate leaves, glaucous below; inflorescence branched, densely fruited; berries large; flowers mostly unisexual.

212963 to 212965. From Malankara Rubber Estate, 40 miles northeast of Kottayam, Travancore-Cochin. Jan. 22, 1954.

212963. No. 13512. *Valuthanebun*. Large climbing vine with open foliage of uniform ovate leaves, spikes with stamens 4–5 inches long, well filled. Altitude 600 feet; rainfall 150–200 inches. Cuttings from terminal branch.

212964. No. 13513. Large climbing vine with open foliage of uniform ovate leaves, spikes with stamens 4–5 inches long, well-filled. Altitude 600 feet; rainfall 150–200 inches. Cuttings from bottom shoots.

212965. No. 13514. *Kudravali*. Climbing vine with heavy dark-green foliage; perfect flowers; spikes 5–7 inches long, well-filled or loosely filled. Altitude 600 feet; rainfall 100–200 inches. Cuttings from lower shoots.



**212960 to 212967—Continued**

212966. No. 13510. (Seeds.)

212967. No. 13512. (Seeds.)

**212968 to 213037.**

From India. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Feb. 3, 1954.

212968. *HIBISCUS ESCULENTUS* L. Malvaceae. **Okra.**

No. 13312. Agricultural College farm, Poona, Bombay State. Dec. 17, 1953. Altitude 2,000 feet. Planted in June or July with monsoon rains, or in February and irrigated.

212969. *ACACIA CONCINNA* (Willd.) DC. Mimosaceae.

No. 13357. Market in Baroda, Bombay State. Dec. 22, 1953. Pods used as soap.

212970. *BRASSICA JUNCEA* (L.) Coss. Brassicaceae. **Chinese mustard.**

No. 13344. Market, Baroda, Bombay State. Dec. 22, 1953. Local variety.

212971. *BRASSICA OLERACEA* var. *CAPITATA* L. **Cabbage.**

No. 13392. *Karamkalo*. Market, Baroda, Bombay State. Dec. 23, 1953. Head cabbage.

212972. *BRASSICA OLERACEA* var. *BOTRYTIS* L. **Cauliflower.**

No. 13393. *Fulevar*. Market, Baroda, Bombay State. Dec. 23, 1953. Near sea level.

212973. *BRASSICA OLERACEA* var. *GONGYLODES* L. **Kohlrabi.**

No. 13397. *Nalcola*. Market, Baroda, Bombay State. Dec. 22, 1953.

212974. *BRASSICA* sp.

No. 13351. *Rai*. Market, Baroda, Bombay State. Dec. 22, 1953. Near sea level.

212975 to 212978. *CAJANUS CAJAN* (L.) Druce. Fabaceae. **Pigeonpea.**

212975. No. 13150. Poona, Bombay State. Dec. 8, 1953.

212976. No. 13187. Dharwar Agricultural College, Dharwar, Bombay State. Dec. 11, 1953.

212977. No. 13197. Dharwar Agricultural College, Dharwar, Bombay State. Dec. 11, 1953. Tall variety.

212978. No. 13420. *Tur*. Baroda, Bombay State. Tall variety.

212979. *CARTHAMUS TINCTORIUS* L. Asteraceae. **Safflower.**

No. 13149. Poona, Bombay State. Local variety of ordinary quality.

212980. *CENTROSEMA PUBESCENS* Benth. Fabaceae.

No. 13195. Dharwar Agricultural College, Dharwar, Bombay State. Dec. 11, 1953. Introduced from Ceylon. On poor gravelly reddish soil making good growth with 40 inches of summer rain.

212981. *CICER ARIETINUM* L. Fabaceae. **Chickpea.**

No. 13409. Baroda, Bombay State. Dec. 23, 1953. Cultivated without irrigation for table use and as horse feed.

## 212968 to 213037—Continued

212982 and 212983. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. **Watermelon.**

212982. No. 13381. Market, Baroda, Bombay State. Dec. 22, 1953.

212983. No. 13423. Baroda, Bombay State. Dec. 23, 1953. Fruits round, pale green with thin dark stripes.

212984. *CROTALARIA* sp. Fabaceae.

No. 13253. Eight miles west of Poona, Bombay State. Dec. 13, 1953, Annual bushy herb, 1-3 feet high.

212985. *CUCUMIS SATIVUS* L. Cucurbitaceae. **Cucumber.**

No. 13314. *Khida*. Agricultural College Farm, Poona, Bombay State. Dec. 17, 1953. Pale variety with gland dots on fruit.

212986 to 212988. *CYAMOPSIS TETRAGONOLOBA* (L.) Taub. Fabaceae. **Guar.**

212986. No. 13380. Market, Baroda, Bombay State. Dec. 22, 1953. Cultivated for table use.

212987. No. 13412. Baroda, Bombay State. Dec. 23, 1953. Near sea level; annual, cultivated for young pods.

212988. No. 13413. Baroda, Bombay State. Dec. 23, 1953. Near sea level. Variety fed to cattle.

212989. *CYMBOPOGON MARTINII* (Roxb.) Stapf. Poaceae.

No. 13246. Eight miles west of Poona, Bombay State. Dec. 13, 1953. Grassland on volcanic hills. Perennial 3-4 feet tall, scattered on slopes, with aromatic scent when crushed.

212990 to 212992. *DOLICHOS BIFLORUS* L. Fabaceae.

212990. No. 13143. Bombay. Dec. 7, 1953. Seeds used as blood coagulant.

212991. No. 13144. Bombay. Dec. 7, 1953. Seeds used as blood coagulant.

212992. No. 13163. Dharwar, Bombay State. Dec. 10, 1953. Dry-farmed with 30 inches of summer rainfall.

212993 to 212998. *DOLICHOS LABLAB* L. **Hyacinth-bean.**

212993. No. 13186. Dharwar Agricultural College, Dharwar, Bombay State. Dec. 11, 1953. Fodder type.

212994. No. 13188. Dharwar Agricultural College, Dharwar, Bombay State. Dec. 11, 1953.

212995. No. 13189. Dharwar Agricultural College, Dharwar. Bombay State. Dec. 11, 1953. Selection from Delhi; prostrate spreading perennial forming mat.

212996. No. 13371. *Valor Black*. Market, Baroda, Bombay State. Dec. 22, 1953. Near sea level. Cultivated as a table bean.

212997. No. 13372. *Valor Red*. Market, Baroda, Bombay State. Dec. 22, 1953. Near sea level. Cultivated as a table bean.

212998. No. 13408. *Wal*. Baroda, Bombay State. Dec. 23, 1953. Silty loam; near sea level. Cultivated as a table bean; foliage fed to livestock.

212999. *DURANTA REPENS* L. Verbenaceae.

No. 13437. Swiss Hotel grounds, New Delhi. Dec. 29, 1953. Ornamental shrub with purple flowers and yellow fruits.

213000. *HETEROPOGON CONTORTUS* (L.) Beauv. Poaceae.

No. 13262. Forty-five miles southwest of Poona, Bombay State. Dec. 15, 1953. North slope of volcanic hills. Perennial in colonies forming complete leafy ground cover; cut for hay.

## 212968 to 213037—Continued

213001. *HIBISCUS CANNABINUS* L. Malvaceae. Kenaf.  
No. 13418. Baroda, Bombay State. Dec. 23, 1953.
213002. *INDIGOFERA CARDIOPHYLLA* Harv. Fabaceae.  
No. 13235. Experiment Sheep farm, Poona, Bombay State. Dec. 12, 1953. Small diffuse annual herb, eaten when dry by sheep.
213003. *INDIGOFERA GLANDULOSA* Harv. Fabaceae.  
No. 13168. Dharwar, Bombay State. Dec. 10, 1953. Thin, reddish gray-elly soil. Annual herb valued as cattle fodder; 14–18 inches high.
213004. *LINUM USITATISSIMUM* L. Linaceae. Flax.  
No. 13155. Dharwar, Bombay State. Dec. 9, 1953. Locally developed oil variety.
213005. *MEDICAGO SATIVA* L. Fabaceae. Alfalfa.  
No. 13396. Market, Baroda, Bombay State. Dec. 23, 1953.
213006. *MYRSINE* sp. Myrsinaceae.  
No. 13281. Wawbaden. Market, Mahabaleshawr, Bombay State. Dec. 15, 1953. Fruits used as vermifuge.
- 213007 to 213010. *ORYZA SATIVA* L. Poaceae. Rice.  
213007. No. 13154. *Ambendrar*. Dharwar, Bombay State. Dec. 9, 1953. Called scented variety.  
213008. No. 13414. *Tambuhar*. Baroda, Bombay State. Dec. 23, 1953. Silted loam; near sea level.  
213009. No. 13415. *Chokha*. Baroda, Bombay State. Dec. 23, 1953. Silty loam; near sea level. Summer grown, maturing in 2–2½ months.  
213010. No. 13416. *Pankhare*. Baroda, Bombay State. Dec. 23, 1953. Silty loam; near sea level. Matures in 3 months.
213011. *PENNISETUM SPICATUM* (L.) Willd. Poaceae. Pearl millet.  
No. 13272. Market, Mahabaleshwar, Bombay State. Dec. 15, 1953.
213012. *PHASEOLUS AUREUS* Roxb. Fabaceae. Mung bean.  
No. 13276. Market, Mahabaleshwar, Bombay State. Dec. 15, 1953. Altitude 4,500 feet. Small yellowish variety.
- 213013 and 213014. *PHASEOLUS ACONITIFOLIUS* Jacq. Moth bean.  
213013. No. 13279. Market, Mahabaleshwar, Bombay State. Dec. 15, 1953. Altitude 4,500 feet.  
213014. No. 13346. *Maht*. Market, Baroda, Bombay State. Dec. 22, 1953.
213015. *PHASEOLUS AUREUS* Roxb. Mung bean.  
No. 13315. Agricultural College farm, Poona, Bombay State. Dec. 17, 1953. Altitude 2,000 feet.
213016. *PHASEOLUS MUNGO* L. Urd.  
No. 13275. Market, Mahabaleshwar, Bombay State. Dec. 15, 1953.
213017. *PHASEOLUS* sp.  
No. 13299. Panchigani, along road from Poona to Mahabaleshwar, Bombay state. Dec. 15, 1953. Annual vine.
213018. *PISUM SATIVUM* L. Fabaceae. Pea.  
No. 13350. *Lila Wathana*. Market, Baroda, Bombay State. Dec. 22, 1953. Clay loam soil; near sea level.
213019. *PSIDIUM* sp. Myrtaceae.  
No. 13254. Dharwar, Bombay State. Dec. 11, 1953. Fruits relatively large, ovoid, eaten raw or as preserves.



## 212968 to 213037—Continued

213020. *PSIDIUM* sp.

No. 13255. Poona, Bombay State. Dec. 14, 1953. Fruits pear-shaped.

213021. *RICINUS COMMUNIS* L. Euphorbiaceae. Castorbean.

No. 13410. Baroda, Bombay State. Dec. 23, 1953. Silty loam; near sea level. Tall variety with red stems, cultivated as leaf feed for silk worms.

213022. *RUMEX* sp. Polygonaceae.

No. 13366. Market, Baroda, Bombay State. Dec. 22, 1953. Cultivated as a green vegetable.

213023 and 213024. *SESAMUM INDICUM* L. Pedaliaceae. Sesame.

213023. No. 13365. Market, Baroda, Bombay State. Dec. 22, 1953. Clay loam soil; near sea level. Used as oilseed.

213024. No. 13395. Market, Baroda, Bombay State. Dec. 23, 1953. Local white-seeded variety. Cultivated for oil.

213025 to 213027. *SOLANUM MELONGENA* L. Solanaceae. Eggplant.

213025. No. 13400. Market, Baroda, Bombay State. Dec. 22, 1953. Fruits long, purple. Irrigated.

213026. No. 13398. Market, Baroda, Bombay State. Dec. 22, 1953. Fruits small, round. Irrigated.

213027. No. 13399. Market, Baroda, Bombay State. Dec. 22, 1953. Fruits long. Irrigated.

213028. *SOLANUM XANTHOCARPUM* Schrad. & Wendl. Solanaceae.

No. 13250. Eight miles west of Poona, Bombay State. Dec. 13, 1953. Grassland on volcanic hills. Low spreading herb used in medicine.

213029 and 213030. *SORGHUM VULGARE* Pers. Poaceae.

213029. No. 13274. Market, Mahabaleshwar, Bombay State. Dec. 15, 1953. Altitude 4,500 feet.

213030. No. 13417. Baroda, Bombay State. Dec. 23, 1953. Silty soil; near sea level. Used for human food.

213031. *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae. Fenugreek.

No. 13323. Agricultural College farm, Poona, Bombay State. Dec. 17, 1953. Used as a leafy table vegetable, planted anytime.

213032 to 213034. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.

213032. No. 13319. *Pusali*. Agricultural College farm, Poona, Bombay State. Dec. 17, 1953. A rust-resistant irrigated winter wheat.

213033. No. 13426. *Bhal*. Baroda, Bombay State. Dec. 23, 1953. Silty soil; near sea level.

213034. No. 13430. *Malvi*. Baroda, Bombay State. Dec. 23, 1953. Silty soil; near sea level. Irrigated winter wheat.

213035. *VERNONIA* sp. Asteraceae.

No. 13291. Market, Mahabaleshwar, Bombay State. Dec. 15, 1953. Seeds used for high blood pressure.

213036. *VINCA* sp. Apocynaceae.

No. 13431. *Barmasi*. Baroda, Bombay State. Dec. 23, 1953. Silty soil; near sea level. Cultivated ornamental of 2 varieties; white flowered and mauve flowered.

213037. *VIGNA SINENSIS* (Torner) Savi. Fabaceae. Cowpea.

No. 13317. *Chavali*. Agricultural College farm, Poona, Bombay State. Dec. 17, 1953. Small whitish bean.



**213038 and 213039.**

From Chile. Seeds collected by E. E. Smith, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Feb. 5, 1954.

**213038. ADESMIA sp. Fabaceae.**

No. 132. Termas de Chillán, Nuble Province. Jan. 16, 1954. Small perennial growing in volcanic ash.

**213039. ADESMIA sp.**

No. 137. Above Puente de Aserradero, 6 miles below hotel on road to Termas de Chillan, Nuble Province. Jan. 16, 1954. Small perennial plants growing in a dry area. Altitude 3,600 feet.

**213040 to 213163. TRIFOLIUM SUBTERRANEUM L. Fabaceae.  
Subterranean clover.**

From Australia. Seeds presented by C. M. McDonald, Assistant Chief of the Division, Division of Plant Industry, Canberra. Received Feb. 5, 1954.

- 213040. *Bacchus Marsh*. No. 489.
- 213041. *Bass*. No. 490.
- 213042. *Baulkamaugh*. No. 494.
- 213043. *Bena*. No. 493.
- 213044. *Benalla*. No. 488.
- 213045. *Burnerang*. No. 495.
- 213046. *Burnley*. No. 497.
- 213047. *Casterton*. No. 498.
- 213048. *Clare*. No. 500.
- 213049. *Cranmore*. No. 499.
- 213050. *Daliak*. No. 503.
- 213051. *Derinal*. No. 501.
- 213052. *Dwalganup*. No. 334.
- 213053. *Edenhope*. No. 505.
- 213054. *Flinders*. No. 506.
- 213055. *Gin Gin*. No. 507.
- 213056. *Hexham* (smooth stem) No. 509.
- 213057. *Hexham* (hairy stem) No. 510.
- 213058. *Hills Small*. No. 511.
- 213059. *Horsham*. No. 508.
- 213060. *Kilmore*. No. 515.
- 213061. *Kings Park*. No. 514.
- 213062. *Kyabrum*. No. 513.
- 213063. *Kybybolyte*. No. 367.
- 213064. *Kyneton*. No. 512.
- 213065. *Lake Widgeon*. No. 517.
- 213066. *McArthur*. No. 523.
- 213067. *Merino*. No. 524.
- 213068. *Milton*. No. 519.
- 213069. *Mount Barker*. No. 330.

**213040 to 213163—Continued**

213070. *Mount Barker* (Amber seed) No. 492.  
 213071. *Mulwala*. No. 340.  
 213072. *Murch.* No. 525.  
 213073. *Muresk.* No. 521.  
 213074. *Nangeela*. No. 530.  
 213075. *Northam A.* No. 529.  
 213076. *Northam B.* No. 526.  
 213077. *Northam C.* No. 528.  
 213078. *Northam D.* No. 527.  
 213079. *Northam Early.* No. 351.  
 213080. *Orford.* No. 359.  
 213081. *Phillip Island.* No. 531.  
 213082. *Pink flowered.* No. 532.  
 213083. *Port Fairy.* No. 536.  
 213084. *Red Leaf.* No. 540.  
 213085. *Romsey.* No. 365.  
 213086. *Samaria.* No. 548.  
 213087. *Seaton Park.* No. 546.  
 213088. *Smeaton.* No. 545.  
 213089. *Springhurst.* No. 547.  
 213090. *Tallarcok.* No. 550.  
 213091. *Yabba North.* No. 551.  
 213092. *Yarloop.* No. 553.  
 213093. *Yea.* No. 552.  
 213094. *Wallendbeen.* No. 361.  
 213095. *Wangarratta.* No. 369.  
 213096. *Wenigup.* No. 539.  
 213097. *Williams.* No. 537.  
 213098. *Wodonga.* No. 538.  
 213099 and 213100. Great Britain.  
     213099. No. 384.  
     213100. No. 385.  
 213101 to 213103. France.  
     213101. No. 516.  
     213102. No. 543.  
     213103. No. 15167 C.  
 213104. No. 491. Berlin, Germany.  
 213105 to 213128. Greece.  
     213105. No. 12680.  
     213106. No. 12681.  
     213107. No. 12684.  
     213108. No. 12686.  
     213109. No. 12692.  
     213110. No. 12700.  
     213111. No. 12711 B.  
     213112. No. 13194.

**213040 to 213163—Continued**

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|---|----------------------|
| 213113. No. 14196.  | 213121. No. 14218 A. |
| 213114. No. 14200 A.  | 213122. No. 14219.   |
| 213115. No. 14200 B.  | 213123. No. 14220.   |
| 213116. No. 14205 A.  | 213124. No. 14326 B. |
| 213117. No. 14207.  | 213125. No. 14326 C. |
| 213118. No. 14211 C.  | 213126. No. 14326 D. |
| 213119. No. 14212 B.  | 213127. No. 14328 A. |
| 213120. No. 14215 B.  | 213128. No. 14381.   |
| 213129 to 213131. Italy.  |                      |
| 213129. No. 12396 A.  |                      |
| 213130. No. 14110 A.  |                      |
| 213131. No. 14110 B.  |                      |
| 213132 and 213133. Malta.   |                      |
| 213132. No. 520.  |                      |
| 213133. No. 9756.   |                      |
| 213134 to 213139. Morocco.  |                      |
| 213134. No. 12541 A.  | 213137. No. 12869 J. |
| 213135. No. 12869 C.  | 213138. No. 14742 B. |
| 213136. No. 12869 E.  | 213139. No. 14744 A. |
| 213140 and 213141. New Zealand.   |                      |
| 213140. No. 534.  |                      |
| 213141. No. 541.  |                      |
| 213142 to 213149. Portugal.   |                      |
| 213142. No. 535.  | 213146. No. 12811.   |
| 213143. No. 9805.   | 213147. No. 14453.   |
| 213144. No. 9837 A.   | 213148. No. 14454 A. |
| 213145. No. 10484.  | 213149. No. 14456.   |
| 213150 to 213155. Spain.  |                      |
| 213150. No. 522.  | 213153. No. 15261 C. |
| 213151. No. 15257.  | 213154. No. 15263.   |
| 213152. No. 15259 A.  | 213155. No. 15264.   |
| 213156. No. 14555. Tunisia.   |                      |
| 213157 to 213161. Turkey.   |                      |
| 213157. No. 549 B.  | 213160. No. 15079 A. |
| 213158. No. 15077 A.  | 213161. No. 15081.   |
| 213159. No. 15078 A.  |                      |
| 213162. Yugoslavia. No. 12860.  |                      |
| 213163. No. 12621. Received as var. <i>telavivensis</i> ; place of publication not found. |                      |

## 213164 to 213183.

From England. Seeds presented by the Royal Horticultural Society Gardens, Wisley, Ripley, Surrey. Received Feb. 8, 1954.

213164. *BAPTISIA AUSTRALIS* R. Br. Fabaceae.  
 213165. *BRODIAEA CONGESTA* J. E. Smith. Liliaceae.  
 213166. *BRODIAEA LACTEA* var. *LILACINA* S. Wats.  
 213167. *CALLISTEPHUS CHINENSIS* (L.) Nees. Asteraceae. China aster.  
 213168. *CAMELLIA SALUENENSIS* Stapf. Theaceae.  
 213169. *CODONOPSIS CARDIOPHYLLA* Diels. Campanulaceae.  
 213170. *DAPHNE MEZEREUM* L. Thymelaeaceae.  
 213171. *DIMORPHOTHECA AURANTICA* DC. Asteraceae.  
 213172. *DIMORPHOTHECA*.  
 213173. *ERICA CINEREA* L. Ericaceae.  
 213174. *GAZANIA*. Asteraceae.  
 213175. *HELIANTHUS ANNUUS* L. Asteraceae. Common sunflower.  
 213176. *HEUCHERA SANGUINEA* Engelm. Saxifragaceae. Coralbells.  
 213177. *MAGNOLIA*. Magnoliaceae.  
 213178. *PIERIS FORRESTII* Harrow. Ericaceae.  
 213179. *PIERIS TAIWANENSIS* Hayata.  
 213180. *RHODODENDRON ARBOREUM* J. E. Smith. Ericaceae.  
 213181. *SIDALCEA MALVAEFLORA* Gray. Malvaceae.  
 213182. *VIOLA MUNBYANA* Boiss. & Reut. Violaceae.

*Alba.*

213183. *VIOLA*.

*Bowles' Black.*

## 213184 to 213194.

From Greece. Seeds presented by W. H. Alderman, Near East Foundation, Salonica. Received Feb. 9, 1954.

- 213184 and 213185. *CUCUMIS MELO* L. Cucurbitaceae. Muskmelon.

213184. *Argetika Pepone*. From commercial field near Argos, Oct. 8, 1953. Fruit 8-10 inches long, long oval, pointed at ends. Skin thin, hard, crinkled, not netted, dull yellowish green; flesh green or tinged with salmon, thick, resembles Honeydew; seed cavity small. Excellent quality. Apparently requires long season.

213185. From public market, Salonica. Collected Oct. 24th, after melons were out of season in northern Greece. Fruit about 9 inches long, cylindrical or very long oval; skin hard, crinkled, not netted; dark pumpkin yellow; seed cavity large, flesh thin, green, medium juicy, quality fair. Of same general type as preceding, but not as good.

- 213186 to 213189. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato.

213186. T-28. Selection from *Bonny Best*.  
 213187. T-51. Selection from *Local Athens*.  
 213188. T-62. Selection from *Scarlet Globe*.  
 213189. T-1385. *Early Chatham*.

213190. *MEDICAGO ARBOREA* L. Fabaceae.



## 213184 to 213194—Continued

213191 to 213194. *SOLANUM MELONGENA* L. Solanaceae. Eggplant.

213191. M-13/87. 213193. M-57/29.

213192. M-25. 213194. M-92.

213195 to 213213. *PRUNUS PERSICA* (L.) Batsch. Amygdalaceae.  
Peach.

From Georgia. Trees presented by the United States Horticultural Field Laboratory, Fort Valley. Received Feb. 9, 1954.

213195. FV 235-10.

213205. FV 236-39.

213196. FV 179-37.

213206. FV 234-108.

213197. FV 14-19 URL.

213207. 90-43.

213198. FV 236-76.

213208. FV 240-7.

213199. FV 131-48.

213209. FV 237-59.

213200. FV 244-40.

213210. FV 89-14.

213201. FV 234-115.

213211. FV 215-41.

213202. *Redcap*.

213212. FV 16-30 RLY.

213203. FV 244-4.

213213. FV 177-17.

213204. FV 16-27YRL.

## 213214 to 213224.

From India. Collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Feb. 10, 1954.

213214. *CITRUS AURANTIFOLIA* (Christm.) Swingle. Rutaceae. Lime.

No. 13572. *Kagdi*. Ganeshkhine Fruit Experiment Station, Poona, Bombay State; altitude 1,800 feet. Feb. 3, 1954. Small thorny trees with open crown and small ovate leaves; fruits small with pungent tip, frequently clustered; irrigated. (Budwood.)

213215. *CITRUS AURANTIUM* L. Seville orange.

No. 13575. Ganeshkhind Fruit Experiment Station, Poona, Bombay State. February 1954. Dense foliage. Fruits rough-skinned, sour, used for stock. (Budwood.)

213216 and 213217. *CITRUS LIMON* (L.) Burm. f. Lemon.

213216. No. 13571. *Italian Lemon*. Ganeshkhind Fruit Experiment Station, Poona, Bombay State; altitude 1,800 feet; rainfall 25 inches. Feb. 3, 1954. A low spreading thorny tree with oblong ovate leaves; fruits rough-skinned, large, skin injured by direct sun. (Budwood.)

213217. No. 13573. *Jambiri*. Ganeshkhind Fruit Experiment Station, Poona, Bombay State; altitude 1,800 feet; irrigated; Feb. 3, 1954. Rather tall spindling thorny trees with dark gray smooth bark. (Budwood.)

213218. *CITRUS* sp.

No. 13574. *Sharbati Limbu*. Ganeshkhind Fruit Experiment Station, Bombay State; altitude 1,800 feet. Feb. 3, 1954. Small medium-sized spreading tree, thorny, with small loose-skinned sour fruits. (Budwood.)

213219. *CITRUS* sp.

No. 13576. *Kharna Kattar*. Wandrikar Farms, Poona, Bombay State. Feb. 3, 1954. Possibly hybrid between sour orange and rough lemon. Thorny tree with large thick-rind sour fruits. (Budwood.)

## 213214 to 213224—Continued

213220. CITRUS AURANTIFOLIA (Christm.) Swingle. Lime.  
No. 13572. (See P. I. 213214 for notes.) (Seeds.)
213221. CITRUS AURANTIUM L. Sevilla orange.  
No. 13575. (See P. I. 213215 for notes.) (Seeds.)
213222. CITRUS LIMON (L.) Burm. f. Lemon.  
No. 13573. (See P. I. 213217 for notes.) (Seeds.)
213223. CITRUS sp.  
No. 13574. (See P. I. 213218 for notes.) (Seeds.)
213224. CITRUS sp.  
No. 13576. (See P. I. 213219 for notes.) (Seeds.)

## 213225 to 213287.

From India. Seeds collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Feb. 10, 1954.

213225. AGROSTIS SEMIVERTICILLATA (Forsk.) C. Christm. Poaceae.  
No. 13165. Dharwar, Bombay State. Dec. 10, 1953. Strictly erect perennial.

- 213226 and 213227. ANDROPOGON ANNULATUS Forsk. Poaceae.

213226. No. 13248. Eight miles west of Poona, Bombay. Dec. 13, 1953. Perennial forming sod in bottomland run-off area; cut for hay.

213227. No. 13433. Baroda, Bombay State. Dec. 23, 1953. Perennial in moist soil along ditch bank. Eaten by cattle.

- 213228 to 213236. ANDROPOGON CARICOSUS L.

Dharwar Agricultural College, Dharwar, Bombay. Dec. 11, 1953. Perennial pasture grass. Altitude 1,800 feet.

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| 213228. No. 13222. | 213233. No. 13227. |
| 213229. No. 13223. | 213234. No. 13228. |
| 213230. No. 13224. | 213235. No. 13229. |
| 213231. No. 13225. | 213236. No. 13230. |
| 213232. No. 13226. |                    |

213237. ANDROPOGON sp.

No. 13210. Tegur, 16 miles north of Dharwar, Bombay State. Dec. 11, 1953. Regarded as fair cattle forage.

213238. ANDROPOGON sp.

No. 13214. Tegur farm, 16 miles north of Dharwar, Bombay State. Dec. 11, 1953. Altitude 1,800 feet. Tall perennial eaten by cattle.

213239. SEHIMA NERVOSUM (Rottb.) Stapf. Poaceae.

No. 13243. Eight miles west of Poona, Bombay State, on volcanic hills. Dec. 13, 1953. Sod-forming perennial for pasture and hay.

213240. ANDROPOGON sp. Poaceae.

No. 13251. Eight miles west of Poona, Bombay State, on volcanic hills. Dec. 13, 1953. Perennial leafy grass cut for hay.

213241. ANDROPOGON sp.

No. 13252. Eight miles west of Poona, Bombay State, on volcanic hills. Dec. 13, 1953. Tall perennial growing up through shrubbery.

## 213225 to 213287—Continued

213242. *ANDROPOGON* sp.

No. 13270. Mahabaleshwar, Bombay State. Dec. 15, 1953. Volcanic mesa with deep soil. Altitude 4,500 feet. Perennial leafy spreading grass.

213243. *ANDROPOGON* sp.

No. 13329. Aarey Dairy farm, Bombay. Dec. 19, 1953. Altitude 125 feet. Mat-like perennial.

213244. *ANDROPOGON* sp.

No. 13338. Palghar stock farm, Bombay State. Dec. 20, 1953. Heavy clay soil near sea level. Leafy perennial.

213245. *ANDROPOGON* sp.

No. 13241. Sheep-breeding farm, Poona, Bombay. Dec. 12, 1953. Perennial cut for hay and pastured.

213246. *BRACHIARIA ERUCAEFORMIS* Griseb. Poaceae.

No. 13207. Tegur, 16 miles north of Dharwar, Bombay State. Dec. 11, 1953. Moist bottomland soils.

213247. *CUCUMIS MELO* L. Cucurbitaceae.

Muskmelon.

No. 13406. Barod, Bombay Province. Dec. 23, 1953. Silty loam soil; near sea level. Cultivated by irrigation.

213248. *CYMBOPOGON* sp. Poaceae.

No. 13334. Palghar stock farm, Bombay State. Dec. 20, 1953. Slender tall grass.

213249. *CYNODON DACTYLON* (L.) Pers. Poaceae.

Bermuda grass.

No. 13327. Aarey Dairy Colony, Bombay. Dec. 19, 1953. Altitude 125 feet. Fine-leaved lawn grass; local variety.

213250. *CYNODON DACTYLON* (L.) Pers. Poaceae.

Bermuda grass.

No. 13326. Aarey Dairy Colony, Bombay. Dec. 19, 1953. Altitude 125 feet. Perennial, stoloniferous.

213251. *DAUCUS CAROTA* L. Apiaceae.

Carrot.

No. 13404. Market, Baroda, Bombay. Dec. 23, 1953. Variety with reddish short-tapered root.

213252. *DODONAEA VISCOSA* (L.) Jacq. Sapindaceae.

No. 13402. Market, Baroda, Bombay State. Dec. 23, 1953. Perennial, evergreen, leafy shrub, used for hedges.

213253. *ECHINOCHLOA* sp. Poaceae.

No. 13330. Aarey Dairy Colony, Bombay. Dec. 19, 1953. Altitude 125 feet.

213254. *ERAGROSTIS UNIOLOIDES* (Retz.) Nees. Poaceae.

No. 13208. Tegur, 16 miles north of Dharwar, Bombay State. Dec. 11, 1954. Slender annual with whitish compact small heads; poor forage.

213255. *ERAGROSTIS STENOPHYLLA* Hochst.

No. 13215. Tegur farm, 20 miles north of Dharwar, Bombay State. Dec. 11, 1953. Altitude 1,800 feet. Weedy annual not eaten by cattle.

213256 and 213257. *GLYCINE JAVANICA* L. Fabaceae.

213256. No. 13184. Dharwar Agriculture College, Dharwar, Bombay State. Dec. 11, 1953. Introduced from Africa. Erect perennial cultivated for forage.

213257. No. 13194. Dharwar Agriculture College, Dharwar, Bombay State. Dec. 11, 1953.



## 213225 to 213287—Continued

213258. *HEYLANDIA LATEBROSA* (L.) DC. Fabaceae.

No. 13146. Poona, Bombay. Dec. 8, 1953. Procumbent perennial herb cultivated for forage.

213259. *HETEROPOGON CONTORTUS* (L.) Beauv. Poaceae.

No. 13237. Sheep-breeding farm, Poona, Bombay. Dec. 12, 1953. Perennial used for hay and for pasture before heading.

213260. *HETEROPOGON TRITICEUS* (R. Br.) Stapf

No. 13245. Eight miles west of Poona, Bombay, on volcanic hills. Dec. 13, 1953. Tall coarse perennial grass, with single culms.

213261. *HETEROPOGON* sp.

No. 13298. Panchigani along road from Poona to Mahabaleshwar, Bombay. Dec. 15, 1953. Forms a thin sod.

213262. *HIBISCUS SABDARIFFA* L. Malvaceae.

Roselle.

No. 13368. Market, Baroda, Bombay State. Dec. 22, 1953.

213263. *THEMEDA QUADRIVALVIS* (L.) Kuntze. Poaceae.

No. 13172. Tegur, near Dharwar, Bombay State. Dec. 10, 1953. Perennial low spreading grass.

213264. *ISCHAEMUM* sp. Poaceae.

No. 13325. Aarey Dairy Colony, Bombay. Dec. 19, 1953. Altitude 215 feet. Annual grass along ditch.

213265. *ISCHAEMUM* sp.

No. 13331. Palghar stock farm, Bombay. Dec. 20, 1953. About sea level. Caespitose leafy perennial grass regarded as good hay and pasture.

213266. *ISCHAEMUM* sp.

No. 13337. Palghar stock farm, Bombay State. Dec. 20, 1953. Heavy clay soil near sea level. Tall, hard-stemmed leafy perennial regarded as the best pasture and hay grass on the farm.

213267. *LINUM MYSORENSE* Heyne. Linaceae.

No. 13171. Tegur near Dharwar, Bombay State. Dec. 10, 1953. Annual with yellow flowers.

213268. *TRIFOLIUM ALEXANDRINUM* L. Fabaceae.

Berseem.

No. 13403. Market, Baroda, Bombay. Dec. 23, 1953. Grown for forage.

213269. *OCIMUM SANCTUM* L. Menthaceae.

No. 13422. Baroda, Bombay State. Dec. 23, 1953. Highly fragrant herb; sacred plant of India.

213270. *PANICUM LAEVIFOLIUM* Hack. Poaceae.

No. 13219. Dharwar, Bombay State. Dec. 11, 1953. Altitude 1,800 feet. Rainfall 30-35 inches. Regarded as good for hay and pasture.

213271. *PANICUM MAXIMUM* Jacq.

Guinea grass.

No. 13221. Dharwar Agriculture College, Dharwar, Bombay. Dec. 11, 1953. Altitude 1,800 feet.

213272. *PANICUM ANTIDOTALE* Retz. Poaceae.

No. 13220. Dharwar Agriculture College, Dharwar, Bombay. Dec. 11, 1953. Altitude 1,800 feet. Rainfall 30-35 inches. Introduced from Tanganyika, Africa. Regarded as good forage.



## 213225 to 213287—Continued

213273. *PENNISETUM PEDICELLATUM* Trin. Poaceae.

No. 13231. Dharwar College, Dharwar, Bombay. Altitude 1,800 feet. Annual forage grass introduced from South Africa.

213274. *PENNISETUM PURPUREUM* Schumach. Napier grass.

No. 13234. Dharwar Agriculture College, Dharwar, Bombay. Dec. 11, 1953. Altitude 1,800 feet. Introduced from South Africa.

213275. *PENNISETUM* sp.

No. 13160. Dharwar, Bombay State. Dec. 9, 1953. Apparently a good forage grass; with culms 3 feet high.

213276. *RAPHANUS SATIVUS* L. Brassicaceae. Radish.

No. 13339. Market, Baroda, Bombay State. Dec. 22, 1953. Loam soils near sea level.

213277. *SETARIA SPHACELATA* (Schum.) Stapf & Hubb. Poaceae.

No. 13169. Dharwar, Bombay State. Dec. 10, 1953. Cultivated, tall, rather coarse but soft perennial.

213278. *SETARIA TOMENTOSA* (Roxb.) Kunth.

No. 13211. Tegur, 16 miles north of Dharwar, Bombay State. Dec. 11, 1953. Apparently an annual scattered on moist soils.

213279 and 213280. *TEPHROSIA CANDIDA* DC. Fabaceae.

213279. No. 13173. Six miles south of Dharwar, Bombay State, on rocky hill slope. Dec. 10, 1953. Low, colonial, perennial.

213280. No. 13181. Dharwar, Bombay State. Dec. 10, 1953. Perennial herb, locally valued for forage.

213281. *TEPHROSIA* sp.

No. 13434. Airport at Ahmedabad, Bombay State. Dec. 24, 1953. Erect monopodial with branching crown and pink flowers; about 2 feet high.

213282. *TEPHROSIA* sp.

No. 13435. Ahmedabad airport, Bombay State. Dec. 24, 1953. Apparently annual; erect; flowers reddish purple.

213283. *ISEILEMA PROSTRATA* (L.) Anders. Poaceae.

No. 13209. Tegur, 16 miles north of Dharwar, Bombay State. Dec. 11, 1953. Tall, coarse, perennial with bitter taste; abundant but not eaten by cattle.

213284. *THEMEDA* sp.

No. 13335. Palghar stock farm, Bombay State. Dec. 20, 1953. Heavy clay soil near sea level. Tall tough grass, regarded as poor forage.

213285. *TRICHOLAENA REPENS* (Willd.) Hitch. Poaceae. Natal grass.

No. 13159. Dharwar, Bombay State. Dec. 9, 1953. Annual summer grass introduced from Africa, regarded as good forage.

213286. *VIGNA SINENSIS* (Toner) Savi. Fabaceae. Cowpea.

No. 13407. Baroda, Bombay State. Dec. 23, 1953. Silty loam near sea level.

213287. *ZEA MAYS* L. Poaceae. Corn.

No. 13311. Agriculture College farm, Poona, Bombay. Dec. 17, 1953. Altitude 2,000 feet. Planted in summer as vegetable or in February and irrigated for fodder.

**213288. GOSSYPIUM. Malvaceae.****Cotton.**

From Spain. Seeds presented by the Instituto de Fomento de la Producción de Fibras Textiles, Sevilla. Received Feb. 12, 1954.

*Andalucia.*

**213289. PINUS TORREYANA Parry. Pinaceae.****Pine.**

From California. Seeds presented by the United States Field Station, La Jolla. Received Feb. 12, 1954.

**213290 to 213306. PIPER NIGRUM L. Piperaceae. Black pepper.**

From India. Collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Feb. 10, 1954.

Unless otherwise mentioned, material collected was cuttings.

**213290.** No. 13521. Western boundary of Coorg, along road to Tellicherry; altitude 1,000 feet. Low-branching vines climbing on tree trunks. Jan 27, 1954.

**213291.** No. 13543. *Kalluvalli*. Ten miles south of Cannanore, Malabar Coast. Jan. 29, 1954; near sea level. Vigorous vines 8–12 years old with large green leaves, mostly perfect-flowered spikes with densely set fruits.

**213292.** No. 13547. *Kalluvalli*. Suntikoppa, Coorg State; altitude 3,000–3,500 feet. Rainfall 70–80 inches. Reported as being 1 of the 2 best stocks being propagated. Jan. 30, 1954.

**213293.** No. 13548. *Karingota*. Suntikoppal, Coorg State; altitude 3,000 feet. From Malabar, reported as 1 of 2 best yielders being propagated. Jan. 30, 1954.

**213294.** No. 13550. *Kall-ballamcotta*. Pollibetta Estates, Pollibetta, Coorg; altitude 3,000–3,500 feet. Jan. 30, 1954. Vigorous middle-age vines climbing to 30 feet. Leaves ovate. Spikes perfect, well-filled.

**213295.** No. 13551. *Ballamcotta*. Pollibett Estates, Pollibetta, Coorg; altitude 3,000–3,500 feet. Vigorous vines with dark green foliage and occasional large leaves among smaller; spikes long, partly filled. Jan. 30, 1954.

**213296.** No. 13552. *Kalluvalli*. Pollibetta Estate, Pollibetta, Coorg; altitude 3,000–3,500 feet. Mature vigorous vine with good crop of well-filled spikes; spikes with strong development of stamens. Jan. 30, 1954.

**213297.** No. 13553. *Utheramcotta*. Pollibetta Estates, Pollibetta, Coorg; altitude 3,000–3,500 feet. Vigorous vine with dark green foliage spikes, without stamens; yield reported to be irregular and light, but berries heavy. Jan. 30, 1954.

**213298.** No. 13554. *Kalluvalli*. Nine miles southeast of Pollibetta, Coorg; altitude 3,000 feet. Mature vine, with scattered partly filled spikes; spikes with stamens. Jan. 31, 1954.

**213299.** No. 13552. *Belamcotta*. Pollibetta Estates, Pollibetta, Coorg; altitude 3,000–3,500 feet. January 1954.

**213300.** No. 13563. *Kalluvalli*. Pollibetta Estates, Pollibetta, Coorg; altitude 3,000–3,500 feet. January 1954.

**213301.** No. 13565. *Kudaravalli*. Agriculture Experimental Farm, Talipernamba, Malabar Coast. Heavy bearer with compound spike but without stamens. Jan. 28, 1954.

**213302.** No. 13566. Four miles southwest of Virajpet, Coorg; about 4,000 feet altitude. Vine climbing on tree; without inflorescence. Jan. 29, 1954.

**213303.** No. 13554. (See P. I. 213298.) (Seeds.)

**213304.** No. 13562. (See P. I. 213299.) (Seeds.)

**213305.** No. 13563. (See P. I. 213300.) (Seeds.)

**213306.** No. 13565. (See P. I. 213301.) (Seeds.)

**213307. PASTINACA SATIVA L. Apiaceae.****Parsnip.**

From Portugal. Seeds presented by Miguel Moutinho Ahaiazeu, Lisbon. Received Feb. 15, 1954.

**213308. OSMANTHUS HETEROPHYLLUS (G. Don) P. S. Green.****Oleaceae.**

From Maryland. Plant growing at the United States Plant Introduction Garden, Glenn Dale. Numbered Feb. 16, 1954.

A plant, of unknown origin, differing in foliage characters from the typical species.

**213309 to 213322.**

From India. Collected by H. S. Gentry, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Feb. 10, 1954.

Chettalli, Coorg State. Jan. 29-30, 1954. (Budwood.)

**213309. CITRUS AURANTIFOLIA (Christm.) Swingle. Rutaceae.****Lime.**

No. 13536. Thorny spreading tree similar to *Tahiti* lime.

**213310. CITRUS SINENSIS (L.) Osbeck.****Orange.**

No. 13541. *Coorg Sathugudie*. Altitude 3,000-3,500 feet; rainfall 65 inches. Symmetrical, small, spreading, unarmed tree.

**213311. CITRUS LIMETTA Risso.****Sweet lime.**

No. 13537. Altitude 3,000-3,500 feet; annual rainfall 65 inches. Spreading armed tree with fruits ripening yellow; small nipple, round.

**213312 and 213313. CITRUS LIMON (L.) Burm. f.****Lemon.**

**213312.** No. 13540. *Gajinimba*. Altitude 3,000-3,500 feet. Low spreading tree branched from base, thorny, fruits oblong, nipped.

**213313.** No. 13549. *Gajinimba*. Altitude 3,000-3,500 feet; rainfall 65 inches. Small with branches from near base, rather strictly ascending; fruits small medium, loose-skinned.

**213314. CITRUS RETICULATA Blanco.****Mandarin orange.**

No. 13545. Altitude 3,000-3,500 feet; rainfall 65 inches. Small tree with branches from near base, rather strictly ascending; fruits small to medium, loose-skinned.

**213315. CITRUS sp.**

No. 13538. Altitude 3,000-3,500 feet; rainfall 65 inches. Small spreading thorny tree with roundish yellow fruits with large nipple.

**213316. CITRUS sp.**

No. 13539. *Gajinimba*. Altitude 3,000-3,500 feet; rainfall 65 inches. Vigorous, broad-leaved, thorny, tall, erect tree used as a rootstock in southern India.

**213317. CITRUS sp.**

No. 13542. *Jumbiri*. Altitude 3,000-3,500 feet; rainfall 65 inches. Spreading tree with oblong, rough fruits.

**213318. CITRUS sp.**

No. 13544. *Nai Chakota*. Altitude 3,000-3,500 feet; rainfall 65 inches. Symmetrical somewhat spreading trees with smooth, erect, strong well-rounded trunk, unarmed; fruits large, rough; used for stock in Coorg.

**213319. CITRUS sp.**

No. 13544A. *Koodankithuli*. Altitude 3,000-3,500 feet; rainfall 65 inches. Erect symmetrical tree branched from near base, with small-leaved rather thin foliage; fruits small, depressed, loose-skinned.



**213309 to 213322—Continued**

213320. CITRUS sp.

No. 13546. *Balandakithuli*. Altitude 3,000–3,500 feet; annual rainfall 65 inches. Slender tree; leaves with winged petioles.

213321. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. Sweetpotato.

No. 13532. Garden in Talipernamba, Malabar Coast. Jan. 28, 1954. Cultivated in narrow high row beds; flowers lavender; irrigated by hand from well; in sandy soil of rice paddy. (Tubers.)

213322. RAUVOLFIA SERPENTINA Benth. Apocynaceae.

No. 13564. Pollibetta Estates, Pollibetta, Coorg. Jan. 31, 1954. Low monopodial herb with red flowers; perennial from tuberous roots. (Tubers.)

**213323 to 213329.**

From Iowa. Seeds planted at the Regional Introduction Station, Ames. Numbered Feb. 11, 1954.

213323. MELILOTUS ALBA Desr. Fabaceae. White sweetclover.

F. C. 16517. Arlington, 1929.

213324 and 213325. MELILOTUS DENTATA (Waldst. &amp; Kit.) Pers.

213324. F.C. 13080. Western Siberia.

213325. F.C. 13087. Halle, Germany.

213326 to 213329. MELILOTUS OFFICINALIS (L.) Lam. Yellow sweetclover.

213326. F.C. 05331. W. Va. Experiment Station.

213327. *Saskatoon 6417*. H. 32.213328. *Saskatoon 6717* A. 27.

213329. F.C. 16510. Selection by A. T. Stone, Arlington Farm.

**213330 to 213335. VITIS VINIFERA L. Vitaceae. European grape.**

From Germany. Cuttings presented by the Institut für Rebenzuchtung und Rebenveredlung, Geisenheim. Received Feb. 11, 1954.

213330. 88 Gm.

213333. 316 Gm.

213331. 101/14 Gm.

213334. 3309.

213332. 286 Gm.

213335. *Teleki 5 G, Klon 6 Gm.***213336 to 213349.**

From India. Seeds collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Feb. 11, 1954.

Chettalli, Coorg State.

213336. CITRUS AURANTIFOLIA (Christm.) Swingle. Rutaceae. Lime.

No. 12536. (See P.I. 213309)

213337. CITRUS SINENSIS (L.) Osbeck. Orange.

No. 13541. Coorg. (See P.I. 213310)

213338. CITRUS LIMETTA Risso. Sweet lime.

No. 12537. (See P.I. 213311)

213339 to 213342. CITRUS LIMON (L.) Burm. f. Lemon.

213339. No. 13489. Hunchbetter Estate near Virajpet, Coorg; altitude 3,000 feet. Dwarf shrub, reported to be from Japan. Jan. 14, 1954.



**213336 to 213349—Continued**

213340. No. 13490. Hunchbetter Estate near Virajpet, Coorg. Small tree with rather round medium-sized fruits. Jan. 14, 1954.

213341. No. 13540. (See P.I. 213312)

213342. No. 13549. (See P.I. 213313)

213343. CITRUS RETICULATA Blanco.

Mandarin orange.

No. 13545. (See P.I. 213314)

213344. CITRUS sp.

No. 13538. (See P.I. 213315)

213345. CITRUS sp.

No. 13539. (See P.I. 213316)

213346. CITRUS sp.

No. 13542. (See P.I. 213317)

213347. CITRUS sp.

No. 13544. (See P.I. 213318)

213348. CITRUS sp.

No. 13544A. (See P.I. 213319)

213349. CITRUS sp.

No. 13546. (See P.I. 213320)

**213350. SESAMUM INDICUM L. Pedaliaceae.**

Sesame.

From Georgia. Seeds planted at the Regional Plant Introduction Station, Experiment. Numbered Feb. 15, 1954.

Originally collected by Walter Koelz (No. 9576A) in Nepal, July 1948, at 7,500 feet altitude.

**213351 to 213356.**

From Canada. Seeds presented by the Department of Agriculture, Experiment Station, Morden, Manitoba. Received Feb. 15, 1954.

213351. MALUS BACCATA var. MANDSHURICA (Maxim.) C. Schneid. Malaceae.

213352. PRINSEPIA SINENSIS Oliver. Amygdalaceae.

213353. PYRUS USSURIENSIS Maxim. Malaceae.

Pear.

213354 and 213355. SHEPHERDIA ARGENTEA (Pursh) Nutt. Elaeagnaceae.

213354. Berries red.

213355. Berries yellow.

213356. TILIA CORDATA Mill. Tiliaceae.

Swedish.

**213357 to 213367.**

From Iraq. Seeds presented by H. W. Springfield, United States Operations Mission, American Embassy, Baghdad. Received Feb. 16, 1954.

213357. ASTRAGALUS sp. Fabaceae.

No. 11. From Chemchemal; fenced area. May 1953.

213358. HORDEUM BULBOSUM L. Poaceae.

No. 10. From Haji Omran. July 1953.

**213357 to 213367—Continued**

213359 and 213360. *HYPARRHENIA HIRTA* (L.) Stapf. Poaceae.

213359. No. 2. Ten km. east of Kirkuk. May 1953.

213360. No. 3. Ten km. east of Kirkuk. May 1953.

213361. *INDIGOFERA* sp. Fabaceae.

No. 1. Haji Omran. July 1953.

213362. *MELICA* sp. Poaceae.

No. 5. Three km. east of Rayat. July 1953.

213363. *MELICA* sp.

No. 4. Three km. east of Rayat. July 1953.

213364. *PAPPOPHORUM* sp. Poaceae.

No. 6. Eight km. north of Kirkuk. June 1953.

213365. *PAPPOPHORUM* sp.

No. 7. Eight km. north of Kirkuk. June 1953.

213366. *PENNISETUM* sp. Poaceae.

No. 8. Osta Sherif. Oct. 1953.

213367. *SANGUISORBA MINOR* Scop. Rosaceae.

Small burnet.

No. 9. Two km. east of Rayat. July 1953.

**213368. *TUTCHERIA VIRGATA* (Koidz.) Nakai. Theaceae.**

From Okinawa. Plants growing at the United States Plant Introduction Garden, Glenn Dale, Md. Numbered Feb. 16, 1954.

Originally from T. Saito, APO 719, San Francisco, Calif.

**213369 to 213377. *GOSSYPIUM*. Malvaceae.**

Cotton.

From Sudan. Seeds presented by the Ministry of Agriculture, Cotton Breeding Section, Shambat, Khartoum North. Received Feb. 16, 1954.

213369 to 213372. *Karakhadi*.

213369. ANI 11.

213371. ANI 11B.

213370. ANI 11A.

213372. ANI 11C.

213373. *Gaorani*, ANI 17.

213374. *Humpi*, ATI 1.

213375. *Nadam*, ATI 2.

213376. *Coconadas*, ATI 5.

213377. *Rozi*, ATI 6.

**213378 to 213381.**

From Taiwan. Seeds presented by Shu Min Chiang, Taipeh. Received Feb. 18, 1954.

213378. *CROTALARIA JUNCEA* L. Fabaceae.

Sunn-hemp.

213379 and 213380. *SESBANIA SESBAN* (L.) Merr. Fabaceae.

213379. No. 1.

213380. No. 2.

213381. *STIZOLOBIUM CINEREUM* Piper & Tracy. Fabaceae.

**213382 to 213391.**

From the Union of South Africa. Stolons presented by the African Explosives and Chemical Industries Ltd., Johannesburg, Transvaal. Received Feb. 18, 1954.

213382. *CYNODON* sp. Poaceae.

*Barberspan.*

213383. *CYNODON* sp.

*Bloupan.*

213384. *CYNODON DACTYLON* var. *DENSUS* Hurcombe.

213385 to 213389. *CYNODON DACTYLON* (L.) Pers. **Bermuda grass.**

213385. *Franklin.*

213388. *Skaapplaas.*

213386. *Murray.*

213389. *Vereeniging-Tomsett.*

213387. *Royal Cape.*

213390. × *CYNODON MAGENNISII* Hurcombe.

213391. *CYNODON TRANSVAALENSIS* Burt Davy.

**213392 to 213394.**

From Iraq. Seeds collected by H. W. Springfield, United States Operations Mission to Iraq, American Embassy, Baghdad. Received Feb. 19, 1954.

From Haji Omran.

213392. *DACTYLIS GLOMERATA* L. Poaceae.

**Orchard grass.**

213393. *LOTUS* sp. Fabaceae.

213394. *MEDICAGO SATIVA* L. Fabaceae.

**Alfalfa.**

**213395. CITRUS RETICULATA** Blanco. Rutaceae. **Mandarin orange.**

From Israel. Cuttings presented by the Ministry of Agriculture, Horticultural Division, Hakirya. Received Feb. 19, 1954.

*Clementine.*

**213396. TEPHROSIA VOGELII** Hook. f. Fabaceae.

From Belgian Congo. Seeds presented by the Institut National Pour L'Etude Agronomique, Station de Mulungu-Tshibinda. Received Feb. 23, 1954.

**213397 to 213399.**

From Peru. Bulbs collected by E. E. Smith, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Feb. 23, 1954.

213397. *HYMENOCALLIS AMANCAES* (Ruiz & Pav.) Nichols. Amaryllidaceae.

No. 147. Lomas de Atocongo, 30 km. south of Lima; altitude 200 feet. Bulbs growing in sandy soil. Leaves and flowers appear in June and July. Jan. 29, 1954.

213398. *STENOMESSION COCCINEUM* Herb. Amaryllidaceae.

No. 148. Lomas de Lachay, 86 km. north of Lima. Small yellow-flowered amaryllid growing on sandy soil. Leaves appear without the flowers in June and July. Jan. 30, 1954.

213399. *STENOMESSION* sp.

No. 145. Lomas de Amancaes, Lima, altitude 900 feet. Small yellow-flowered amaryllid on dry hills just north of Lima. Flowers in January and produces leaves in June and July.

**213400 and 213401. PRUNUS ARMENIACA L. Amygdalaceae.****Apricot.**

From Greece. Budwood collected by W. H. Alderman Near East Foundation, Salonica. Received Feb. 23, 1954.

From the Langadas Government Nursery, Langadas.

**213400.** *Luizet.* Introduced into Greece from France. Fruits large, ovate to ovate conic; quality very good. Said to be the best variety for northern Greece.

**213401.** *Paviot.* Introduced into Greece from France. Fruits very large; quality good.

**213402 to 213436.**

From England. Plants purchased from John Waterer Sons & Crisp Ltd., Twyford, Berks. Received Feb. 24, 1954.

**213402 to 213404. ILEX AQUIFOLIUM L. Aquifoliaceae. English holly.**

**213402.** *Maderensis.*

**213403.** *Waterers Golden.*

**213404.** *Waterers Green.*

**213405. MALUS. Malaceae.**

*Golden Hornet.*

**213406. PRUNUS CONRADINAE Koehne. Amygdalaceae.**

*Semiplena.*

**213407 to 213412. PRUNUS SERRULATA Lindl. Oriental flowering cherry.**

**213407.** *Albo Plena.*

**213410.** *Tai Haku.*

**213408.** *Senriko.*

**213411.** *Watereri.*

**213409.** *Sumizone.*

**213412.** *Yedozakura.*

**213413 to 213436. RHODODENDRON. Ericaceae.**

**213413.** *Basilisk.*

**213425.** *Firefly.*

**213414.** *Berry Rose.*

**213426.** *George Reynolds.*

**213415.** *Brayil.*

**213427.** *Gibraltar.*

**213416.** *Cecile.*

**213428.** *Glowing Ember.*

**213417.** *Coronation Lady.*

**213429.** *Golden Sunset.*

**213418.** *Crenoline.*

**213430.** *Pink Ruffles.*

**213419.** *Daybreak.*

**213431.** *Radiance.*

**213420.** *Debutante.*

**213432.** *Rocket.*

**213421.** *Eisenhower.*

**213433.** *Royal Command.*

**213422.** *Exberry White.*

**213434.** *Silver Slipper.*

**213423.** *Exberry Yellow.*

**213435.** *Strawberry Ice.*

**213424.** *Firecracker.*

**213436.** *Sun Chariot.*

**213437 to 213440. COFFEA RACEMOSA Lour. Rubiaceae. Coffee.**

From Mozambique. Seeds obtained through E. A. Menninger, Stuart, Fla. Planted at the United States Introduction Garden, Coconut Grove.

Numbered Feb. 24, 1954.

From the Repartição de Agricultura do Sul do Save, Inhambane.

**213437.** 211-B.

**213439.** 243-B.

**213438.** 240-B.

**213440.** 258-B.



**213441 to 213444.**

From India. Budwood presented by the Fruit Research Station, Kodur P.O., Andhra State, Madras. Received Feb. 24, 1954.

213441. CITRUS sp. Rutaceae.

*Jamberi.*

213442. CITRUS LIMON (L.) Burm. f. Lemon.

*Nepalli Oblong.*

213443 and 213444. CITRUS GRANDIS (L.) Osbeck. Pummelo.

213443. Red.

213444. White.

**213445 to 213447.**

From Bolivia. Tubers collected by E. E. Smith, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Feb. 23, 1954.

213445. BOMAREA sp. Amaryllidaceae.

No. 157. *Nueva Colomi.* Todos Santos, Cochabamba. Feb. 10, 1954. Altitude 900 feet.

213446. (Undetermined.)

No. 159. *Papa.* Near the new Chacquear about half way between Todos Santos Viejo and Todos Santos, Cochabamba. Altitude 900 feet. Vine; under side of young leaves purple. Feb. 11, 1954.

213447. SOLANUM sp. Solanaceae.

No. 158. Todos Santos Viejo, Todos Santos, Cochabamba. Altitude 900 feet. Stems winged, whitish or purple; leaves large, lobed when mature. Tubers said to be edible. Feb. 6, 1954.

**213448 and 213449. PRUNUS ARMENIACA L. Amygdalaceae.**

**Apricot.**

From Afghanistan. Seeds collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Mar. 3, 1954.

Market, Kabul. Nov. 26, 1953.

213448. No. 13136. A large-fruited variety said to be cultivated near Kabul.

213449. No. 13141. Regarded as one of the best-flavored apricots.

**213450. CITRUS LIMON (L.) Burm. f. Rutaceae. Lemon.**

From Morocco. Seeds presented by the Service de L'Horticulture, Rabat. Received Feb. 24, 1954.

*Limonette De Marrakech.*

**213451. BRASSICA OLERACEA var. BOTRYTIS L. Brassicaceae.**

**Broccoli.**

From England. Seeds presented by the National Vegetable Research Station, Wellesbourne, Warwick. Received Feb. 24, 1954.

*Cambridge Hardy Late.*

**213452. GOSSYPIUM TRIPHYLLUM (Harv. & Sond.) Hochr.**

Malvaceae. **Cotton.**

From Sudan. Seeds presented by the Ministry of Agriculture, Cotton Breeding Section, Shambat, Khartoum North. Received Feb. 24, 1954.

**213453 and 213454.**

From Ethiopia. Seeds presented by the Food and Agriculture Organization of the United Nations, Addis Ababa. Received Feb. 24, 1954.

**213453.** *COFFEA* sp. Rubiaceae.

*Irgalem S. 17.* Cultivated. Collected in Irgalem (Dalle) capital of the Province of Sidamo, at an altitude of about 1,750 meter. This type has green-tipped small leaves and rather small fruits.

**213454.** *COFFEA* sp.

*Wollamo S. 16.* Cultivated. Collected at Betale, District of Wollamo, Province of Sidamo, about 25 miles from the town of Soiddu, on the old highway to Addis Ababa, at an altitude of about 1,800 meter. This type occurs with both bronze and green tipped leaves. The leaves are relatively small, and the large fruits are somewhat squarish.

**213455. ARUNDINARIA ALPINA Schum. Poaceae. Bamboo.**

From Kenya. Seeds presented by the Grassland Research Station, Department of Agriculture, Kitale. Received Feb. 24, 1954.

**213456. IXIA sp. Iridaceae.**

From the District of Columbia. Seeds presented by L. B. Smith, Smithsonian Institution. Received Feb. 25, 1954.

**213457 and 213458. CYNODON DACTYLON (L.) Pers. Poaceae. Bermuda grass.**

From India. Stolons collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Jan. 7, 1954.

Numbered Feb. 25, 1954.

Aarey Dairy Colony, Bombay. Dec. 19, 1953.

**213457.** No. 13327. Fine-leaved lawn grass, heavily manured; green all year.

**213458.** No. 13328. Altitude 125 feet. Fine-leaved endemic variety.

**213459 to 213465. SACCHARUM. Poaceae. Sugarcane.**

From Taiwan. Presented by the Taiwan Sugar Experiment Station, Taiwan. Received Feb. 25, 1954.

**213459.** F 120. **213463.** F 39-1913.

**213460.** F 125. **213464.** PT. 33-84.

**213461.** F 36-771 **213465.** PT. 33-86.

**213462.** F 38-3238.

**213466. ROSA sp. Rosaceae. Rose.**

From Iran. Seeds collected by C. H. Blackman, United States Operations Mission to Iran, American Embassy Tehran. Received Feb. 25, 1954.

From Darah. Flowers medium large, double, red; very fragrant.

**213467 and 213468. GLYCINE MAX (L.) Merrill. Fabaceae. Soybean.**

From the Philippine Islands. Seeds presented by the Department of Agriculture and Natural Resources, Manila. Received Feb. 25, 1954.

**213467.** *Ami.*

**213468.** *Biloxi.*

**213469. (Undetermined.) Fabaceae.**

From Peru. Plant presented by A. F. Swanson, Washington, D.C. Received Feb. 25, 1954.

From La Molina.

**213470 to 213472.**

From the Union of South Africa. Seeds presented by A. W. Bayer, University of Natal, Pietermaritzburg, Natal. Received Feb. 25, 1954.

213470 and 213471. *CHLORIS GAYANA* Kunth. Poaceae. Rhodes grass.

213470. No. 1.

213471. No. 2.

213472. *DIGITARIA* sp. Poaceae.

**213473 to 213476.**

From Afghanistan. Seeds collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Feb. 26, 1954.

Market, Babul, Nov. 26, 1953.

213473 to 213475. *PRUNUS AMYGDALUS* Batsch. Amygdalaceae. Almond.

213473. No. 13138. Said to come from Gurband, Kabal.

213474. No. 13139. From slope orchards with closely spaced small trees with some irrigation.

213475. No. 13140. Said to come from Tashkurghan, Mazar-i-Sharif.

213476. *PRUNUS ARMENIACA* L.

Apricot.

No. 13137. Said to come from Gurband.

**213477 to 213480.**

From England. Trees presented by T. Hilling Company, Chobham, Surrey. Received Feb. 26, 1954.

213477. *MALUS SYLVESTRIS* Mill. Malaceae.

Apple.

*Niedzwetskyana* Opporto.

213478. *MALUS* sp.

*Upton Pyne.*

213479. *PRUNUS AMYGDALUS* Batsch. Amygdalaceae.

Almond.

*Pollardii.*

213480. *PRUNUS PADUS* L.

*Grandiflora.*

**213481. *PRUNUS CERASIFERA* Ehrh.**

**Myrobalan plum.**

From England. Scions presented by the East Malling Research Station, East Malling, Kent. Received Feb. 26, 1954.

*Myrobalan B.*

**213482 to 213546.**

From India. Seeds collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Feb. 26, 1954.



## 213482 to 213546—Continued

213482 and 213483. *ALYSICARPUS RUGOSUS* (Willd.) DC. Fabaceae.

213482. No. 13145. Ponna, Bombay. Dec. 8, 1953. Perennial cultivated for forage.

213483. No. 13204. Dharwar Agricultural College, Dharwar, Bombay State. Dec. 11, 1953. Cultivated for forage; also wild.

213484. *ANDROPOGON ANNULATUS* Forsk. Poaceae.

No. 13201. Dharwar Agricultural College, Dharwar, Bombay State. Dec. 11, 1953. Perennial with numerous local varieties, some of which are regarded as good forage grasses.

213485 and 213486. *BOTHRIOCHLOA PERTUSA* (L.) A. Camus. Poaceae.

213485. No. 13161. Dharwar, Bombay State. Dec. 10, 1953. Small perennial on thin gravelly soil forming a turf, or thin lawn, closely browsed.

213486. No. 13162. Dharwar, Bombay State, Dec. 10, 1953. Small variant of P.I. 213485 with shorter culms and more tillering.

213487. *ANDROPOGON ANNULATUM* Forsk. Poaceae.

No. 13213. Tegur farm, 16 miles north of Dharwar, Bombay State. Dec. 11, 1953. Slender, erect perennial bunchgrass regarded as good forage.

213488. *ARTHRAOXON* sp. Poaceae.

No. 13266. Forty-five miles southwest of Poona, Bombay, on rocky soil; altitude 3,000 feet. Tender bushy perennial. Dec. 15, 1953.

213489. *ARTHRAOXON* sp.

No. 13267. Forty-five miles southwest of Poona, Bombay, on rocky slope. Altitude 3,000 feet. Bushy perennial. Dec. 15, 1953.

213490. *ARTHRAOXON MEEBOLDII* Stapf.

No. 13292. Mahabaleshwar, Bombay State. Altitude 4,500 feet. Dec. 15, 1953.

213491. *ANDROPOGON* sp. Poaceae.

No. 13294. Mahabaleshwar, Bombay State. Altitude 4,500 feet. Perennial forming good sod. Dec. 15, 1953.

213492. *ANDROPOGON* sp.

No. 13438. New Delhi, on rocky hill. Tall leafy caespitose, perennial. Dec. 29, 1953.

213493. *APLUDA MUTICA* L. Poaceae.

No. 13174. Six miles south of Dharwar, Bombay State, on rocky slope. Slender perennial grass regarded as fair pasture; 6-10 inches tall. Dec. 10, 1953.

213494. *ARUNDINELLA* sp. Poaceae.

No. 13264. Forty-five miles southwest of Poona, Bombay, on rocky slope. Altitude 3,000 feet. Leafy annual forming colonies. Dec. 15, 1953.

213495. *ARUNDINELLA TUBERCULATA* Munro.

No. 13265. Forty-five miles southwest of Poona, Bombay, on rocky slope. Altitude 3,000 feet. Colonial annual. Dec. 15, 1953.

213496. *CARUM CARVI* L. Apiaceae.

Caraway.

No. 13342. Market, Baroda, Bombay State. Dec. 22, 1953.

213497. *CHRYSOPOGON MONTANUS* Trin. Poaceae.

No. 13200. Dharwar Agricultural College, Dharwar, Bombay State. Perennial, erect local wild grass considered to be good forage. Dec. 11, 1953.



## 213482 to 213546—Continued

213498 and 213499. *CLITORIA TERNATEA* L. Fabaceae.

213498. No. 13192. Dharwar Agricultural College, Dharwar, Bombay State. More erect type. Dec. 11, 1953.

213499. No. 13193. Dharwar Agricultural College, Dharwar, Bombay State. Spreading type developed at Ceylon. Dec. 11, 1953.

213500. *COIX LACHRYMA-JOBI* L. Poaceae.

Jobs-tears.

No. 13332. Palghar stock farm, Bombay State. Heavy clay soil. Tall coarse grass used as ensilage. Dec. 20, 1953.

213501. *COIX LACHRYMA-JOBI* var. *STENOCARPA* (Oliver) Stapf.

No. 13333. Palghar stock farm, Bombay State. Dec. 20, 1953. Heavy clay soil near sea level. Tall leafy grass.

213502. *CROTALARIA* sp. Fabaceae.

No. 13142. Near Delhi. Erect about 3 feet high. Dec. 4, 1953.

213503. *CYAMOPSIS TETRAGONOLOBA* (L.) Taub. Fabaceae.

Guar.

No. 13182. Dharwar Agricultural College, Dharwar, Bombay State. An erect annual cultivated for forage and young pods used as a vegetable. Dec. 11, 1953.

213504. *CYNODON DACTYLON* (L.) Pers. Poaceae.

Bermuda grass.

No. 13307. Poona, Bombay. Dec. 16, 1953.

213505. *DESMODIUM DIFFUSUM* DC. Fabaceae.

No. 13203. Dharwar Agricultural College, Dharwar, Bombay State. Dec. 11, 1953.

213506. *DESMODIUM GYROIDES* DC.

No. 13260. Poona Agricultural College, Poona, Bombay State. Originally from Ceylon; forage herb. Dec. 14, 1953.

213507. *DESMODIUM* sp.

No. 13190. Dharwar Agricultural College, Poona, Bombay State. Forage introduced from Australia. Dec. 11, 1953.

213508. *ERAGROSTIS TENUIFOLIA* Hochst. Poaceae.

No. 13305. Poona, Bombay State. Altitude 2,000 feet. Perennial, of little forage value. Dec. 16, 1953.

213509. *ERAGROSTIS AMABILIS* (L.) Wight & Arn.

No. 13304. Poona, Bombay State. Altitude 2,000 feet. Annual, of no forage value. Dec. 16, 1953.

213510. *ERAGROSTIS JAPONICA* Trin.

No. 13164. Dharwar, Bombay State. Erect, perennial grass. Dec. 10, 1953.

213511. *ERAGROSTIELLA BRACHYPHYLLA* (Stapf) Bor.

No. 13175. Six miles south of Dharwar, Bombay State, on rocky slope. Slender ornamental perennial with little forage value. Dec. 10, 1953.

213512. *DINEBRA RETROFLEXA* (Vahl) Panz.

No. 13309. Poona, Bombay State. Altitude 2,000 feet. Dec. 16, 1953.

213513. *FOENICULUM VULGARE* Mill. Apiaceae.

Fennel.

No. 13363. Market, Baroda, Bombay State. Dec. 22, 1953.

## 213482 to 213546—Continued

213514. *GLYCINE JAVANICA* L. Fabaceae.

No. 13249. Eight miles west of Poona, Bombay State on grassland. Dec. 13, 1953.

213515. *MELANOCENCHRIS ABYSSINICA* R. Br. f. Poaceae.

No. 13303. Poona, Bombay State. Altitude 2,000 feet. Small xerophytic perennial. Dec. 16, 1953.

213516. *HETEROPOGON CONTORTUS* (L.) Beauv. Poaceae.

No. 13301. Poona, Bombay State. Perennial eaten before heading by cattle. Dec. 16, 1953.

213517. *HETEROPOGON CONTORTUS* (L.) Beauv.

No. 13302. Poona, Bombay State. Altitude 2,000 feet. Annual. Dec. 15, 1953.

213518 and 213519. *INDIGOFERA ENDECAPHYLLA* Jacq. Fabaceae.

213518. No. 13185. Dharwar Agricultural College, Dharwar, Bombay State. Erect perennial about 2 feet high. Dec. 11, 1953.

213519. No. 13202. Dharwar Agricultural College, Dharwar, Bombay State. Perennial herb. Dec. 11, 1953.

213520 to 213522. *INDIGOFERA GLANDULOSA* Wendl.

213520. No. 13147. Poona, Bombay. Perennial cultivated for forage. Dec. 8, 1953.

213521. No. 13196. Dharwar Agricultural College, Dharwar, Bombay State. Local selection with more foliage; late maturing. Dec. 11, 1953.

213522. No. 13205. Dharwar Agricultural College, Dharwar, Bombay State. Dec. 11, 1953.

213523. *INDIGOFERA HIRSUTA* L.

Indigo.

No. 13436. Ahmedabad airport, Bombay State. Annual, erect. Dec. 24, 1953.

213524. *ISEILEMA WIGHTII* (Nees) Anderss. Poaceae.

No. 13306. Poona, Bombay State. Altitude 2,000 feet. Leafy perennial grass regarded as one of the best local forages. Dec. 16, 1953.

213525. *PANICUM* sp. Poaceae.

No. 13293. Mahabaleshwar, Bombay. Dec. 15, 1953.

213526. *SETARIA VERTICILLATA* (L.) Beauv. Poaceae.

No. 13308. Poona, Bombay State. Altitude 2,000 feet. Dec. 16, 1953.

213527. *PENNISETUM PEDICELLATUM* Trin. Poaceae.

No. 13232. Dharwar Agricultural College, Dharwar, Bombay. Forage perennial introduced from Australia. Dec. 11, 1953.

213528. *PENNISETUM POLYSTACHION* (L.) Schult.

No. 13206. Dharwar Agricultural College, Dharwar, Bombay. Tall, vigorous annual regarded as good forage. From South Africa. Dec. 11, 1953.

213529 to 213531. *PENNISETUM SPICATUM* (L.) Willd. Pearl millet.

213529. No. 13180. Dharwar, Bombay State. Coarse grass 3 feet tall. Dec. 10, 1953.

213530. No. 13198. Dharwar College, Dharwar, Bombay State. Originally from South Africa. A large coarse variety cultivated for forage. Dec. 11, 1953.

## 213482 to 213546—Continued

213531. No. 13419. Baroda, Bombay State. Dec. 23, 1953.
213532. *PHYSALIS* sp. Solanaceae.  
No. 13179. Dharwar, Bombay State. Annual herb. Dec. 10, 1953.
213533. *RUTA GRAVEOLENS* L. Rutaceae. Rue.
- No. 13258. Poona Agricultural College, Poona, Bombay State. Altitude 2,000 feet. Perennial bushy herb with glaucous foliage. Dec. 14, 1953.
213534. *SEHIMA NERVOSUM* (Roem. & Schult.) Stapf. Poaceae.  
No. 13199. Dharwar Agricultural College, Dharwar, Bombay State. Leafy perennial considered to be good forage. Dec. 11, 1953.
213535. *SETARIA* sp. Poaceae.  
No. 13217. Tegur farm, 16 miles north of Dharwar, Bombay State. Altitude 1,800 feet. Dec. 11, 1953.
213536. *CHRYSOPOGON MONTANUS* Trin. Poaceae.  
No. 13242. Eight miles west of Poona, Bombay State, on volcanic hills. Sod-forming perennial browsed by cattle and cut for hay. Dec. 13, 1953.
213537. *STYLOSANTHES GRACILIS* H.B.K. Fabaceae.  
No. 13183. Dharwar Agricultural College, Dharwar, Bombay State. Erect perennial cultivated for forage. Dec. 11, 1953.
213538. *TAGETES* sp. Asteraceae. Marigold.  
No. 13432. Baroda, Bombay State. Silty soil near sea level. Annual 12-15 inches tall; flowers yellow or orange-red. Dec. 23, 1953.
213539. *TEPHROSIA NOCTIFLORA* Boj. Fabaceae.  
No. 13259. Poona Agricultural College, Poona, Bombay State. Originally from Ceylon. Perennial forage herb. Dec. 14, 1953.
- 213540 and 213541. *THELEPOGON ELEGANS* Roth. Poaceae.  
213540. No. 13167. Dharwar, Bombay State. Coarse, thin, gravelly, reddish soil. Bushy perennial reported to be especially good pasture for producing milk. Dec. 10, 1953.  
213541. No. 13218. Tegur farm, 16 miles north of Dharwar, Bombay State. Altitude 1,800 feet. Low spreading perennial, liked by cattle and found to be a good milk producer. Dec. 11, 1953.
213542. *CYMBOPOGON MARTINII* (Roxb.) Stapf. Poaceae.  
No. 13216. Tegur farm, 16 miles north of Dharwar, Bombay State. Altitude 1,800 feet. Caney inedible perennial.
213543. *THEMEDA TRIANDRA* Forst.  
No. 13244. Eight miles west of Poona, Bombay, on volcanic hills. Perennial cut for hay. Dec. 13, 1953.
213544. *TRIPOGON* sp. Poaceae.  
No. 13263. Forty-five miles southwest of Poona, Bombay, on rocky slope. Perennial, fine-leaved grass. Dec. 15, 1953.
213545. *TRIPOGON* sp.  
No. 13268. Near Panchigani along road from Poona to Mahabaleshwar, Bombay. Altitude 3,500-4,000 feet. Fine-leaved perennial grass. Dec. 15, 1953.
213546. *TRIPOGON* sp.  
No. 13269. Near Panchigani along road from Poona to Mahabaleshwar, Bombay. Altitude 3,500-4,000 feet. Fine-leaved perennial grass. Dec. 15, 1953.



**213547. VITIS. Vitaceae.****Grape.**

From Canada. Plants and cuttings presented by the Horticultural Experiment Station, Vineland, Ontario. Received Mar 1, 1954.

Selection 29-143.

**213548 to 213552. VITIS VINIFERA L. Vitaceae. European grape.**

From Iran. Cuttings presented by R. W. Roskelley, United States Operations Mission to Iran, American Embassy, Tehran. Received Mar. 1, 1954.

213548. *Bidaneh Red.*

213551. *Sahebi White.*

213549. *Bidaneh White.*

213552. *Yaghooti.*

213550. *Cowtit.*

**213553. PRUNUS AMYGDALUS Batsch. Amygdalaceae. Almond.**

From California. Scions presented by H. P. Olmo, University of California, Davis. Received Mar. 1, 1954.

*Duro Italiano.* Originally from Portugal.

**213554 and 213555. MALUS SYLVESTRIS Mill. Malaceae.****Apple.**

From Nova Scotia. Scions presented by the Dominion Entomological Laboratory, Kentville. Received Mar. 1, 1954.

213554. K-32-100-3.

213555. K-32-99-2.

**213556. GOSSYPIUM. Malvaceae.****Cotton.**

From the Soviet Union. Seeds obtained through the Foreign Agricultural Service, Washington, D.C. Received Mar. 1, 1954.

**213557. MALUS SYLVESTRIS Mill. Malaceae.****Apple.**

From Japan. Scions presented by Hayao Iwagaki, Fukushima Horticultural Experiment Station, Fukushima Pref. Received Mar. 1, 1954.

*Matsu.*

**213558. LOLIUM PERENNE L. Poaceae.****Perennial ryegrass.**

From England. Seeds presented by Dunns Farm Seeds Ltd., Salisbury. Received Mar. 1, 1954.

*Certified Devon Eaver.*

**213559. CANAVALLIA OBTUSIFOLIA (Lam.) DC. Fabaceae.**

From Okinawa. Seeds presented by Tatsu Saito, Shima. Received Mar. 1, 1954.

**213560. GOSSYPIUM sp. Malvaceae.**

From Ascension Island. Seeds obtained through the British Embassy, Washington, D.C. Received Mar. 1, 1954.

**213561. DINOCHLOA sp. Poaceae.****Bamboo.**

From Indo-China. Seeds obtained through F. A. McClure, Foreign Agricultural Service, United States Department of Agriculture. Received Mar. 1, 1954.

**213562. ORYZA SATIVA L. Poaceae.****Rice.**

From Afghanistan. Seeds collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Mar. 1, 1954.

No. 13439. Jalalabad Province. Altitude 2,000-3,000 feet. Regarded as one of the best local varieties. November 1953.



**213563 to 213565. PRUNUS CERASIFERA Ehrh. Amygdalaceae. Myrobalan plum.**

From France. Scions presented by the Station de Recherches Viticoles et D'Arboriculture Fruitiere, Pont-de-la-Maye, (Gironde). Received Mar. 2, 1954.

213563. Type A. (P707).

213564. Type B. (P632).

213565. Type C. (P711).

**213566. LOTUS CORNICULATUS L. Fabaceae. Birdsfoot trefoil.**

From Italy. Seeds presented by Sergio Orsi, Universita Degli Studi di Firenze, Florence. Received Mar. 2, 1954.

**213567 to 213602. TRITICUM AESTIVUM L. Poaceae. Common wheat.**

From Argentina. Seeds presented by José Vallega, Castelar. Received Mar. 2, 1954.

213567. *Gorrion* D.I.V. 6688.

213568. *Hornero* D.I.V. 6689.

213569. *Calandria* D.I.V. 6690.

213570. *Aquila* D.I.V. 6691.

213571. *Halcon* D.I.V. 6692.

213572. *Gzal.* Mitre D.I.V. 6693.

213573. *Gzal.* Guemes D.I.V. 6694.

213574. 1764-H553-49-558 D.I.V. 6695.

213575. 1770-H557-49-585 D.I.V. 6696.

213576. 1779-H795-47-231 D.I.V. 6697.

213577. 1780-H797-48-1082 D.I.V. 6698.

213578. 1781-H797-45-3773 D.I.V. 6699.

213579. 1788-H836-48-1115 D.I.V. 6700.

213580. 1792-H836-47-260 D.I.V. 6701.

213581. 1795-H890-49-677 D.I.V. 6702.

213582. 1800-H1037-47-1330 D.I.V. 6703.

213583. 1807-H1040-49-940 D.I.V. 6704.

213584. 1808-H1055-50-844 D.I.V. 6705.

213585. 1809-H1070-49-1210 D.I.V. 6706.

213586. 1810-H1070-49-1227 D.I.V. 6707.

213587. 1817-H1151-50-440 D.I.V. 6708.

213588. 1818-H1151-50-448 D.I.V. 6709.

213589. 1820-H1151-50-454 D.I.V. 6710.

213590. 2908-H557-47-2053 D.I.V. 6711.

213591. 2911-H558-43-1480 D.I.V. 6712.

213592. 2916-H580-49-3013 D.I.V. 6713.

213593. 2937-H912-43-1947 D.I.V. 6714.

213594. 2942-H912-50-2080 D.I.V. 6715.

213595. 2945-H917-45-3817 D.I.V. 6716.

**213567 to 213602—Continued**

- 213596. 2948-H930-47-2815 D.I.V. 6717.
- 213597. 2949-H1004-48-4832 D.I.V. 6718.
- 213598. 2951-H1004-48-4752 D.I.V. 6719.
- 213599. 2954-H1073-47-3619 D.I.V. 6720.
- 213600. 2967-H1186-50-2470 D.I.V. 6721.
- 213601. 2968-H1193-50-2541 D.I.V. 6722.
- 213602. 2972-H1208-50-2614 D.I.V. 6723.

**213603. VACCINIUM ULIGINOSUM L. Vacciniaceae.**

From Japan. Plant presented by the University of Tokyo, Tokyo. Received Mar. 8, 1954.

Hexaploid form.

**213604 to 213673.**

From England. Scions presented by the Director, National Fruit Trials, Royal Horticultural Society Gardens, Wisley, Ripley, Woking, Surrey. Received Mar. 3, 1954.

**213604 to 213659. PRUNUS AVIUM L. Amygdalaceae. Sweet cherry.**

- 213604. *F 262 August Heart.*
- 213605. *F 333 August Heart.*
- 213606. *F 63 Baumann's May.*
- 213607. *F 37 Belle Agatha.*
- 213608. *F 133 Belle Drourec.*
- 213609. *F 119 Belle de Franconville.*
- 213610. *F 227 Bigarreau de Mezel No. 1.*
- 213611. *F 228 Bigarreau de Mezel No. 2.*
- 213612. *F 33 Black Cluster.*
- 213613. *F 28 Black Tartarian (E).*
- 213614. *F 316 Black Tartarian A.*
- 213615. *F 169 Buttner's Rote (White).*
- 213616. *F 98 Caroon.*
- 213617. *F 324 Caroon.*
- 213618. *F 76 Circassian (Knights Early Black).*
- 213619. *F 233 Crane's 42.*
- 213620. *F 314 Crane's 404.*
- 213621. *F 83 Dunn (Devon Mazzard).*
- 213622. *F 267 Early Black.*
- 213623. *F 210 Elton Orchard.*
- 213624. *F 209 Elton Orchard D.*
- 213625. *F 73 Emperor Francis Big. A.*
- 213626. *F 45 Geante d'Hedelfingen.*
- 213627. *F 140 Great Bigarreau.*
- 213628. *F 173 Grosse Prinzessin (Schrecken).*
- 213629. *F 143 Lambert.*

## 213604 to 213673—Continued

213630. *F 84 Large Black (Devon Mazzard).*  
 213631. *F 70 Late Amber.*  
 213632. *F 257 Leicester.*  
 213633. *F 97 Longley's Black Eagle.*  
 213634. *F 155 Ludwig's Bigarreau.*  
 213635. *F 192 Lulsley Early Black.*  
 213636. *F 212 Napoleon Bigarreau.*  
 213637. *F 80 Newington Late Black.*  
 213638. *F 315 Noir de Schmidt.*  
 213639. *F 27 Norwegian.*  
 213640. *F 31 Old Black Heart.*  
 213641. *F 60 Old Black Heart.*  
 213642. *F 311 Peggy Rivers.*  
 213643. *F 121 Planchoury.*  
 213644. *F 86 Preserving (Devon Mazzard).*  
 213645. *F 39 Ramon Oliva.*  
 213646. *F 56 Red Turk.*  
 213647. *F 305 Reidorn Early Black.*  
 213648. *F 307 Reidorn Second Early Black.*  
 213649. *F 309 Sealand Second Early Black.*  
 213650. *F 107 Schrecken.*  
 213651. *F 85 Small Black (Devon Mazzard).*  
 213652. *F 334 Strang Loggi.*  
 213653. *F 30 Turkey Heart.*  
 213654. *F 64 Victoria Black.*  
 213655. *F 259 Werder's Early Black.*  
 213656. *F 215 Weston's.*  
 213657. *F 211 Weston's Amber.*  
 213658. *F 150 Yellow Spanish.*  
 213659. *F 335 (Undetermined).*

## 213660 to 213667. PRUNUS CERASUS L.

Sour cherry.

- |   |                                       |
|---|---------------------------------------|
| 213660. <i>F 111 Carnation.</i>         | 213664. <i>F 156 Coe's Carnation.</i> |
| 213661. <i>F 249 Carnation.</i>         | 213665. <i>F 51 Kentish Red.</i>      |
| 213662. <i>F 246 Carnation.</i>         | 213666. <i>F 113 Kentish Red.</i>     |
| 213663. <i>F 187 Cerise Libjejeice.</i> | 213667. <i>F 100 Morella.</i>         |

## 213668 to 213672. × PRUNUS EFFUSA (Host) Schneid.

Duke cherry.

- |  |                                    |
|--|------------------------------------|
| 213668. <i>F 120. Belle de Chatenay.</i> | 213671. <i>F 160. Olivet.</i>      |
| 213669. <i>F 122. Belle de Choisy.</i>   | 213672. <i>F 149. Royal Queen.</i> |
| 213670. <i>F 153. Empress Eugenie.</i>   |                                    |

## 213673. PRUNUS FRUTICOSA Pall.

Bush cherry.

- F 196. Early May.*

**213674 to 213693. TRITICUM AESTIVUM L. Poaceae.****Common wheat.**

From Argentina. Seeds presented by José Buck, La Dulce. Received Mar. 3, 1954.

213674. <i>Candeal Durumbuck.</i>	213684. <i>Buck 102/52.</i>
213675. <i>Buck Atlantico.</i>	213685. <i>Buck 126/52.</i>
213676. <i>Buck Quequen.</i>	213686. <i>Buck 134/52.</i>
213677. <i>Buck Tandil.</i>	213687. <i>Buck 150/52.</i>
213678. <i>Buck 5/52.</i>	213688. <i>Buck 170/52.</i>
213679. <i>Buck 12/52.</i>	213689. <i>Buck 172/52.</i>
213680. <i>Buck 26/52.</i>	213690. <i>Buck 202/52.</i>
213681. <i>Buck 61/52.</i>	213691. <i>Buck 207/52.</i>
213682. <i>Buck 62/52.</i>	213692. <i>Buck 217/52.</i>
213683. <i>Buck 90/52.</i>	213693. <i>Buck 232/52.</i>

**213694. FRAGARIA. Rosaceae.****Strawberry.**

From New York. Seeds planted at the Regional Plant Introduction Station, Geneva. Numbered Mar. 3, 1954.

Baron Solemacher's large-fruited everbearing runnerless dwarf bush strawberry, from Baron Solemacher's plant-breeding station in West Germany. Not an ordinary Baron Solemacher type, but a new, superior, large round-fruited variety. Fruits average 1 inch in diameter, juicy with spicy wild flavor and aroma. Bears until heavy frost, and starts bearing first year from seed. Plant compact, bushy, perennial, runnerless. Two forms, red or yellow.

**213695 to 213774. ZEA MAYS L. Poaceae.****Corn.**

From Iowa. Seeds presented by the Pioneer Hi-Bred Corn Company, Johnston. Numbered Mar. 3, 1954.

213695 to 213727. Open-pollinated varieties collected from localities as indicated unless otherwise noted. Seeds yellow unless otherwise indicated.

- 213695. *Leaming—Gold Standard* (Dent). Indiana.
- 213696. *Funks Yellow Dent*. Lynden, Ill.
- 213697. *Lancaster Sure Crop* (Dent). Hershey, Pa.
- 213698. *Reids Yellow Dent*. Springport, Ind.
- 213699. *Krug Yellow Dent*. Steamboat Rock, Iowa.
- 213700. *Reids Yellow Dent*. Lacton, Ind.
- 213701. *Tom Thumb Pop*. Canada.
- 213702. *Burl York* (Dent). Waukee, Iowa.
- 213703. *Yellow Dent*. Tennessee.
- 213704. *Yellow Dent*. Iowa.
- 213705. *Reids Yellow Dent*. Buffalo, Ill.
- 213706. *Yellow Dent*. Iowa.
- 213707. *Yellow Dent*. Mount Horeb, Wis.
- 213708. *Krug Yellow Dent*. Iowa.
- 213709. *Reids Yellow Dent*. Clear Lake, Iowa.
- 213710. *St. Charles Yellow Dent*. Woodland Mills, Tenn.
- 213711. *Yellow Dent*. Iowa.



## 213695 to 213774—Continued

- 213712. *Midland Yellow*. Kansas.
- 213713. *Yellow Dent*. Missouri.
- 213714. *Papago Flour*. Arizona.
- 213715. *Gourdseed Dent*. Seed white. Typical Gourdseed—rare. Texas.
- 213716. *Yellow Dent*. Iowa.
- 213717. *Krug Yellow Dent*. Illinois.
- 213718. *Smith Yellow Dent*. Iowa.
- 213719. *Yellow Dent*. Elsberry, Mo.
- 213720. *Yellow Dent*. Nebraska.
- 213721. *Osterland Yellow Dent*. Iowa.
- 213722. *Golden Glow*. Minnesota.
- 213723. *Falconer*. South Dakota.
- 213724. *Blacks Yellow Dent*. Iowa.
- 213725. *Midland Yellow Dent*. Eldorado, Kans.
- 213726. *Miller Yellow Dent*. South Dakota.
- 213727. *Clive Corn*. Illinois.

213728 to 213774. American Indian corn and other miscellaneous varieties collected in the States indicated. Seeds white; flint type unless otherwise noted.

## 213728 to 213741. Arizona.

- 213728. *Apache White*. Apache Tribe.
- 213729. *Apache Red Cob*. Seeds white and blue. Apache Tribe.
- 213730. Seeds colored cherry pericarp (strain of 213729). Flour type. Apache Tribe.
- 213731. *Apache Red*. Seeds white and yellow. Flour type. Apache Tribe.
- 213732. *May be Hopi*. Flour type. Cheyenne Tribe.
- 213733. *KoKoma*. Seeds cherry colored—Hotevilla Village. Flour type. Hopi Tribe.
- 213734. Seeds blue—Hotevilla Village. Hopi Tribe.
- 213735. Flour type. Hopi Tribe.
- 213736. Seeds blue. Flour type. Mescalero Tribe.
- 213737. Seeds red. Navajo Tribe.
- 213738. Seeds white, yellow and blue. Navajo Tribe.
- 213739. Dent type. Navajo Tribe.
- 213740. Navajo Tribe.
- 213741. Seeds white and blue. Flour type. Wallapi Tribe.

## 213742 to 213758. Oklahoma.

- 213742. Seeds red. Arikara Tribe.
- 213743. Seeds white and blue. Cherokee Tribe.
- 213744. Flour type. Cherokee Tribe.
- 213745. Flour type. Cheyenne Tribe.
- 213746. Seeds white and blue. Flour type. Cheyenne Tribe.
- 213747. Flour type. Cheyenne Tribe.

## 213695 to 213774—Continued

213748. Seeds red. Flour type. Cheyenne Tribe.  
 213749. Seeds blue. Cheyenne Tribe.  
 213750. Seeds white and blue. Five Tribes.  
 213751. Seeds red. Flour type. Five Tribes.  
 213752. Five Tribes.  
 213753. *Arapako White*. Kiowa.  
 213754. Seeds blue. Flour type. Kiowa Tribe.  
 213755. Seeds violet. Flour type. Osage Tribe.  
 213756. Seeds brown. Osage Tribe.  
 213757. Seeds red. Quapaw Tribe.  
 213758. Seeds white and purple. Flour type. Shawnee Tribe.  
 213759 to 213764. North Dakota.  
 213759. Flour type. Blackfoot Tribe.  
 213760. Seeds white and yellow. Blackfoot Tribe.  
 213761. Seeds violet. Blackfoot Tribe.  
 213762. Seeds yellow. Blackfoot Tribe.  
 213763. Seeds blue. Blackfoot Tribe.  
 213764. *Rhee Flint*. Blackfoot Tribe.  
 213765 and 213766. Kansas.  
 213765. Flour type. Potawatomi Tribe.  
 213766. Potawatomi Tribe.  
 213767. *Albuquerque Pink*. New Mexico. Seeds red. Pueblo Tribe.  
 213768. Iowa. Seeds white and purple. Flour type. Sac and Fox Tribes.  
 213769. Idaho. Seeds white and yellow. Shoshoni Tribe.  
 213770. South Dakota. Seeds blue. Flour type. Sioux Tribe.  
 213771 to 213774. Nebraska.  
 213771. Flour type. Winnebago Tribe.  
 213772. Seeds purple. Flour type. Winnebago Tribe.  
 213773. *Winnebago Flint*.  
 213774. Seeds blue. Flour type. Winnebago Tribe.

## 213775 to 213811. ZEA MAYS L. Poaceae.

Corn.

From North Dakota. Seeds obtained through the Oscar H. Will Seed Co., Bismarck. Numbered Mar. 3, 1954.

## 213775 and 213776. Mandan, N. Dak.

213775. *Rainbow Flint*.  
 213776. *Northwestern Dent*.

## 213777 to 213789. Experiment Station, Brookings, S. Dak.

- |                                      |                                      |
|--------------------------------------|--------------------------------------|
| 213777. <i>Golden Jewel</i> .        | 213784. <i>Dakota White</i> .        |
| 213778. <i>Gehu</i> .                | 213785. <i>Black Hill Special</i> .  |
| 213779. <i>Blue Flour</i> .          | 213786. <i>Early Murdock</i> .       |
| 213780. <i>Fulton Yellow Dent</i> .  | 213787. <i>Rainbow Flint</i> .       |
| 213781. <i>Flaconer</i> .            | 213788. <i>Northwestern Dent</i> .   |
| 213782. <i>Brookings #86</i> .       | 213789. <i>Wimples Yellow Dent</i> . |
| 213783. <i>Brown County Yellow</i> . |                                      |

## 213775 to 213811—Continued

213790 to 213811. Bismarck, N. Dak.

- |   |   |
|---|---|
| 213790. <i>Dakota White Flint.</i>                    | 213801. <i>Bear Island Chippewa.</i>                      |
| 213791. <i>South Dakota Rainbow.</i>                  | 213802. <i>Mandan White Flint.</i>                        |
| 213792. <i>Gehu.</i>                                  | 213803. <i>Gaspé Flint</i><br>(Eastern Canada).           |
| 213793. <i>Assiniboine.</i>                           | 213804. <i>Pipestone Flint.</i>                           |
| 213794. <i>Yellow Flour.</i>                          | 213805. <i>Wild Goose.</i>                                |
| 213795. <i>Great Plains Rainbow.</i>                  | 213806. <i>Mandan Black.</i>                              |
| 213796. <i>Nuetla Sweet Corn.</i>                     | 213807. <i>Mandan Clay Red.</i>                           |
| 213797. <i>Cheyenne Agency</i><br><i>Striped.</i>     | 213808. <i>Mandan Red Flour.</i>                          |
| 213798. <i>Mated Chief Speckled</i><br><i>Mandan.</i> | 213809. <i>Polish Bydgoskaya.</i>                         |
| 213799. <i>Zucni Blue.</i>                            | 213810. <i>Bezenlsahonshaya</i><br><i>Siberian Flint.</i> |
| 213800. <i>Mandan Yellow Flint.</i>                   | 213811. <i>Mandan Blue.</i>                               |

## 213812 to 213829.

From Iran. Cuttings presented by R. W. Roskelley, United States Operations Mission, Tehran. Received Mar. 3, 1954.

- 213812 to 213815. JUGLANS REGIA L. Juglandaceae. Persian walnut.
213812. No. 1. Thin shelled, large, excellent quality. Azarshar.
213813. No. 2. Thin shelled, average size. Fathabad, Tabriz.
213814. No. 3. Fruits clustered; size and quality average. Fathabad.
213815. No. 4. Thin shelled, average size. Fathabad.
- 213816 to 213820. PRUNUS AMYGDALUS Batsch. Amygdalaceae. Almond.
213816. Thin shelled; kernel small. Azarshar.
213817. Thin shelled; kernel large. Azarshar.
213818. Thin shelled, average size. Azerbaijan.
213819. Thin shelled, average size; late flowering. Fathabad.
213820. Thin shelled, average size. Fathabad.
- 213821 to 213829. VITIS VINIFERA L. Vitaceae. European grape.
213821. *Albaghi.* Cherry red, very sweet; used for juice and table.
213822. *Ganjehi.* Light red, large, sweet; skin rather thick for eating.
213823. *Gheisi.* Yellow, very sweet; seeds large, skin rather thick.
213824. *Keshmesh.* Amber yellow, small, round; skin thin.
213825. *Khalili.* Amber yellow, ovoid; skin rather thin; earliest to ripen in Azerbaijan.
213826. *Black Shahani.* Similar to White Shahani, but with black seeds.
213827. *White Sahebi.* Amber yellow, large, round; skin rather thick.
213828. *Shirazi.* Black, round; skin thick.
213829. *White Shahani.* Yellow; skin rather thick; flavor acid.



**213830 and 213831. TRITICUM AESTIVUM L. Poaceae.****Common wheat.**

From Australia. Seeds presented by S. L. Macindoe, Sydney, New South Wales. Received Mar. 4, 1954.

213830. *Spica*.213831. *KD 1451*.**213832 to 213836. TRITICUM AESTIVUM L. Poaceae.****Common wheat.**

From Italy. Seeds presented by an unknown donor. Received Mar. 4, 1954.

213832. *Damiano Chiesa*.213835. *S. Pastore*.213833. *Funo*.213836. *Tevere*.213834. *Impeto*.**213837 to 213842. TRITICUM AESTIVUM L. Poaceae.****Common wheat.**

From Argentina. Seeds presented by José Vallega, Estación Experimental Central, Castelar. Received Mar. 4, 1954.

213837. Catete 50v-Klein 200. 213840. D.I.V. 278.

213838. Catete y Klein. 213841. D.I.V. 474.

213839. D.I.V. 275. 213842. D.I.V. 5.066 *Magnif "g" 1-3-3-1*.**213843 to 213904.**

From Oklahoma. Seeds presented by the Oklahoma State University, Stillwater. Received Mar. 4, 1954.

Localities given are original sources of material.

**213843 to 213846. ANDROPOGON ANNULATUS Forsk. Poaceae.**

213843. A-1526. Soil Conservation Service nursery at San Antonio, Tex.

213844. A-1529. Collected 2 miles south of Harlingen, Tex.

213845. A-2564. Botany Division, New Delhi, India.

213846. A-2566. Texas.

**213847. ANDROPOGON CONDYLOTRICHUS Hochst.**

A-3783. Jardin "Gillet," Kisantu, Belgian Congo.

**213848. ANDROPOGON ELLIOTTII Chapm.**

A-2588. Collected by L. K. Halls, Berrier Co., Ga., on Lynchburg loamy sand.

**213849 to 213851. ANDROPOGON GAYANUS Kunth.**

213849. A-2637. Henderson Research Station, Mazea, Southern Rhodesia.

213850. A-2638. Henderson Research Station, Mazea, Southern Rhodesia.

213851. A-2639. H. J. van Rensburg, Mpwapwa, Tanganyika.

**213852 and 213853. ANDROPOGON GERARDII Vitm.**

213852. A-2597. Collected by J. Endrizzi near south end of Chain Bridge, D.C.

213853. A-2598. Collected by J. Endrizzi at College Park, Md.



## 213843 to 213904—Continued

213854. *ANDROPOGON GLOMERATUS* (Walt.) B.S.P.

A-2600. Collected by L. K. Halls, Berrien Co., Ga., on Plummer sand in pine lands at 300 feet altitude.

213855. *ANDROPOGON HALLII* Hack.

A-2604. Collected in sand dunes on Highway 281, south of Waynoka, Okla.

213856. *BOTHRIOCHLOA INSCULPTA* (Hochst.) A. Camus. Poaceae.

A-3667. Division of Botany, INEAC, Yangambi, Belgian Congo.

213857 to 213859. *ANDROPOGON INTERMEDIUS* R. Br.

213857. A-2582. Koashung, Taiwan, in gravelly soil.

213858. A-2654.II C.R. Mudaliar, Coimbatore, India.

213859. A-2560.

213860 and 213861. *BOTHRIOCHLOA ISCHAEMUM* (L.) Keng.

Yellow bluestem.

213860. A-3075. Germany.

213861. A-3240. Botanic Garden, Brussels, Belgium.

213862. *ANDROPOGON LEUCOSTACHYUS* H.B.K.

A-3696. Collected near São Paulo, Brazil.

213863. *ANDROPOGON LITTORALIS* Nash.

A-1350. Collected by S. E. Wolff, 18 miles west of Falfurrias, Tex.

213864. *ANDROPOGON MOHRII* Hack.

A-2607. Collected by L. K. Halls, Berrien Co., Ga. Pine timberland at 300 feet altitude.

213865 and 213866. *ANDROPOGON NODOSUS* (Willem.) Nash.

213865. A-2570. Nisbett Machine Company, southern Texas.

213866. A-2571. Texas.

213867. *BOTHRIOCHLOA PERTUSA* (L.) A. Camus. Poaceae.

A-4021. J. E. Senaratna, Peradeniya, Ceylon.

213868 and 213869. *ANDROPOGON SACCHAROIDES* Sw.

213868. A-2579. Glass Mountain, Okla.

213869. A-2580. Glass Mountain, Okla.

213870. *ANDROPOGON SCHINZII* Hack.

A-2645. A. Bogdan, Nairobi, Kenya.

213871 and 213872. *ANDROPOGON SCHIRENSIS* Hochst.

213871. A-3922. Assam, India.

213872. A-3666. Division of Botany, INEAC, Yangambi, Belgian Congo.

213873 to 213878. *ANDROPOGON SCOPARIUS* Michx.

213873. A-1531. Collected 7 miles northeast of Alice, Tex.

213874. A-2624. Collected by W. Washko, near Renner, Tex.

213875 to 213878. Collected by I. Stuckey, Kingston, R. I.

213875. A-2629. 213877. A-2632.

213876. A-2630. 213878. A-2633.

## 213843 to 213904—Continued

- 213879 to 213881. *ANDROPOGON SERICEUS* R. Br.  
 213879. A-1349. Australia.  
 213880. A-2572. Brisbane, Australia.  
 213881. A-2573. Australia.
213882. *ANDROPOGON TERNARIUS* Desv.  
 A-3051. Collected by J. Endrizze, Bowie, Md.
213883. *ARTHAXON HISPIDUS* (Thunb.) Mak. Poaceae.  
 A-2694. Collected by J. Endrizze, Washington, D. C.
- 213884 and 213885. *CHRYSOPOGON MONTANUS* Trin. Poaceae.  
 213884. A-2657. Division of Botany, New Delhi, India.  
 213885. A-3226. Near Allahabad, India.
213886. *CYMOPOGON AFRONARDUS* Stapf. Poaceae.  
 A-3915. Assam, India.
213887. *CYMOPOGON NERVATUS* (Hochst.) Chiov.  
 A-3708. Collected by V. Nastasi, Eritrea, Africa.
213888. *ERIANTHUS TRINII* Hack. Poaceae.  
 A-3731. Collected by D. M. Dedecca, near São Paulo, Brazil.
213889. *EULALIA GENICULATA* Stapf. Poaceae.  
 A-3237. A. Bogdan, Nairobi, Kenya.
- 213890 and 213891. *HETEROPOGON CONTORTUS* (L.) Beauv. Poaceae.  
 213890. A-2667. Division of Botany, New Delhi, India.  
 213891. A-3230. Near Allahabad, India.
213892. *HYPARRHENIA CYMBARIA* (L.) Stapf. Poaceae.  
 A-3664. Division of Botany, INEAC, Yangambi, Belgian Congo.
- 213893 and 213894. *HYPARRHENIA HIRTA* (L.) Stapf.  
 213893. A-3014. Botanic Garden, Coimbra, Portugal.  
 213894. A-3184. Government Agricultural Experiment Station, Neveh-Yaar, Israel.
213895. *HYPARRHENIA RUFA* (Nees) Stapf. Jaragua grass.  
 A-3665. Division of Botany, INEAC, Yangambi, Belgian Congo.
213896. *HYPARRHENIA* sp.  
 A-3129. R. Strange, Kitale, Kenya.
213897. *ISCHAEMUM CILIARE* Retz. Poaceae.  
 A-2374. R. R. Shrode, Turrialba, Costa Rica.
213898. *ISCHAEMUM TIMORENSE* Kunth.  
 A-2590.
213899. *SORGHUM VERSICOLOR* Anderss. Poaceae.  
 A-3788. Collected by J. J. van Rensburg, Mpwapwa, Tanganyika.
213900. *SORGHUM VERTICILLIFLORUM* (Steud.) Stapf.  
 A-2789. Collected by A. Bogdan, 15 miles east of Nairobi, in black heavy soil that is seasonally waterlogged.
213901. *SORGHUM* sp.  
 A-2791. Southern Rhodesia.

**213843 to 213904—Continued**213902. *SORGHUM* sp.

A-2792. Henderson Research Station, Mazea, Southern Rhodesia.

213903 and 213904. *VETIVERIA ZIZANIOIDES* (L.) Nash. Poaceae.

213903. A-3225. Collected by T. A. Kasky, near Allahabad, India.

213904. A-4020. J. Endrizzi, Blandy Experimental Farm, Boyce, Va.

**213905. *PRUNUS AVIUM* L. Amygdalaceae. Sweet cherry.**From West Germany. Scions presented by the Max Planck Institut für Zucht-  
tunskforschung, Voldagsen über Elze, Hannover. Received Mar. 4, 1954.*Theissinger Sämmling.***213906 to 213908.**From England. Budwood presented by the East Malling Research Station,  
near Maidstone, Kent. Received Mar. 5, 1954.213906. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.  
*Lord Lambourne.*213907 and 213908. *PYRUS COMMUNIS* L. Malaceae. Pear.213907. *Doyenne du Comice.*213908. *Williams' Bon Chretien.***213909 to 213912. *POPULUS* (hybrid). Salicaceae.**From Italy. Cuttings presented by the Poplar Experiment Station, Casale  
Monferrato. Received Mar. 5, 1954.213909. I 45-51. Selection from a pistillate tree of *Populus angulata*;  
crown narrow; leaves very large.213910. I-54. Staminate clone, a hybrid of *Populus deltoides*, with some  
resistance to defoliating disease.213911. I-214. Pistillate clone, probably a cross of *Populus deltoides* with  
*P. nigra*. A very fast-growing form.213912. I-455. Pistillate clone of a natural hybrid of *Populus deltoides*  
with *P. nigra* var. *italica*. Resistant to defoliating disease.**213913 to 213919.**From Bolivia. Seeds collected by E. E. Smith, Agricultural Explorer, Horti-  
cultural Crops Research Branch, Plant Industry Station, Beltsville, Md.  
Received Mar. 8, 1954.213913. *ANNONA* sp. Annonaceae.No. 155. Todos Santos, Cochabamba. Altitude 900 feet. Tree about 35  
feet high. Feb. 9, 1954.213914. *BEGONIA GLABRA* Aubl. Begoniaceae.No. 163. Medio Carahota, 6 miles west of Todos Santos, Cochabamba.  
Altitude 900 feet. Vine growing in moist forest. Feb. 12, 1954.213915 to 213918. *CAPSICUM FRUTESCENS* L. Solanaceae. Redpepper.213915. No. 149. Cancha market, Cochabamba. Altitude 8,400 feet.  
Fruit greenish to red.213916. No. 165. Nueva Colomi, Todos Santos, Cochabamba. Altitude  
900 feet. Bushy, native to this lowland rain-forest region. Feb. 10, 1954.213917. No. 166. Nueva Colomi, Todos Santos, Cochabamba. Native to  
rain-forest region; fruits large, red. Feb. 10, 1954.



## 213913 to 213919—Continued

213918. No. 167. Nueva Colomi, Todos Santos, Cochabamba. Altitude 900 feet. Native to lowland rain-forest region; fruits small, red. Feb. 10, 1954.

213919. *CYPHOMANDRA BETACEA* (Cav.) Sendt. Solanaceae. Tree-tomato.

No. 164. Nueva Colomi, Todos Santos, Cochabamba. Altitude 900 feet. Small tree up to 10 feet in height. Tomatoes are ground with peppers and served as a sauce with meals. Feb. 10, 1954.

213920 to 213925. *RUBUS*. Rosaceae.

From Scotland. Plants presented by the Scottish Horticultural Research Institute, Mylnefield, Invergowrie by Dundee. Received Mar. 8, 1954.

213920. *Lloyd George*. Upper Nether Harwick, Glamis.

213921. *Malling Enterprise*. Mylnefield, Invergowrie.

213922. *Malling Exploit*. West Scryne, Carnoustie.

213923. *Malling Jewel*. Chamberwells, Glamis.

213924. *Malling Landmark*. From Brathinch, Brechin.

213925. *Malling Promise*. Dalnagairn, Kirkmichael.

## 213926 to 213989.

From England. Plants purchased from Hillier & Sons, Winchester. Received Mar. 8, 1954.

213926. *ABIES CONCOLOR* (Gord.) Hoopes. Pinaceae.

Fir.

*Glauca Compacta*.

213927. *ABIES GEORGEI* Orr.

213928. *ABIES VENUSTA* (Douglas) K. Koch.

213929.  $\times$  *ABIES VILMORINII* Masters.

213930. *ACER CAMPBELLI* Hook. f. & Thoms. Aceraceae.

Maple.

213931. *ACER JAPONICUM* Thunb.

*Vitifolium*.

213932. *ACER MICRANTHUM* Sieb. & Zucc.

213933. *ACER PALMATUM* Thunb.

*Senkaki*.

213934. *ACER PSEUDOPLATANUS* L.

*Simon-Louis Frères*.

213935. *ACER WILSONII* Rehder.

213936 to 213938. *CEDRUS ATLANTICA* Manetti. Pinaceae.

Cedar.

213936. *Aurea*.

213937. *Fastigiata*.

213938. *Glauca Pendula*.

213939. *CEDRUS BREVIFOLIA* (Hook. f.) Henry.

213940 and 213941. *CEDRUS DEODARA* (Lamb.) Loud.

213940. *Albo-spica*.

213941. *Robusta*.

213942 and 213943. *CEDRUS LIBANENSIS* Juss.

213942. *Aurea Prostrata*.

213943. *Comte de Dijon*.



## 213926 to 213989—Continued

213944 to 213946. ESCALLONIA. Escalloniaceae.

213944. *Glory of Donard*.213945. *Apple Blossom*.213946. *Donard Brilliance*.

213947 to 213949. ILEX AQUIFOLIUM L. Aquifoliaceae.

English holly.

213947. *Corallina*.213948. *Handsworthiensis*.213949. *Serratifolia*.

213950. ILEX CRENATA Thunb.

Holly.

*Variegata*.

213951. ILEX DIPYRENA Wall.

213952. ILEX FORRESTII Comber.

213953. ILEX FRANCHETIANA Loes.

213954. LARIX DECIDUA Mill. Pinaceae.

Larch.

*Fastigiata*.

213955. LARIX GRIFFITHIANA Carr.

213956. LARIX POTANINII Batal.

213957. MAHONIA AQUIFOLIUM Nutt. Berberidaceae.

*Moseri*.

213958. MAHONIA REPENS var. ROTUNDIFOLIA Fedde.

213959. PHLOMIS CHRYSOPHYLLA Boiss. Menthaceae.

213960 to 213963. PICEA ABIES (L.) Karst. Pinaceae.

Spruce.

213960. *Argentea*.213962. *Humilis*.213961. *Filicoides*.213963. *Pseudo-prostrata*.

213964. PICEA BRACHYTYLA (Franch.) Pritzel.

213965. PICEA LIKIANGENSIS (Franch.) Pritzel.

213966. PICEA MORRISONICOLA Hayata.

213967. PICEA ORIENTALIS (L.) Carr.

*Nana*.

213968. PINUS CEMBRA (L.) Pinaceae.

Pine.

*Chlorocarpa*.

213969. × PINUS HOLFORDIANA A. B. Jackson.

213970 to 213973. PINUS SYLVESTRIS L.

Scotch pine.

213970. *Argentea*.213972. *Pumila*.213971. *Aurea*.213973. *Viridis*.

213974. PRUNUS AVIUM L. Amygdalaceae.

Sweet cherry.

*Pendula*.

213975. PRUNUS CONRADINAE Kochne.

213976. PRUNUS FRUTICOSA Pall.

*Variegata*.

213977. PRUNUS JACQUEMONTII Hook. f.

213978. PRUNUS PROSTRATA Labill.

## 213926 to 213989—Continued

213979. *PRUNUS SETULOSA* Batal.213980. *PRUNUS TENELLA* var. *GESSLERIANA* (Kirchn.) Rehd.*Fire Hill.*213981 and 213982. *RIBES ALPINUM* L. Saxifragaceae.213981. *Aureum*.213982. *Pumilum*.213983. *SALIX GLAUCA* L. Salicaceae.213984. *SALIX LANATA* L.213985. *ULMUS* sp. Ulmaceae.

Elm.

Received as *Ulmus hillieri*, apparently an unpublished species.213986. *ULMUS PROCERA* Salisb.*Argento-Variegata.*213987 to 213989. *ULMUS PROCERA* var. *VIMINALIS* (Loud.) Rehd.

213987. No. 1.

213988. No. 2. *Aurea*.213989. No. 3. *Variegata*.213990 to 213993. *PRUNUS ARMENIACA* L. Amygdalaceae.

Apricot.

From Greece. Scions presented by W. H. Alderman, Near East Foundation, Salonica. Received Mar. 9, 1954.

From Kalos Farm.

213990. No. 1. From Epanomy.

Ripens early, has sweet kernel.

213991. No. 2. Probably from Italy.

Late ripening; fruit red, sweet kernel.

213992. No. 3. Originally from Spain.

213993. No. 4. *Saint Ambrosios*. Probably identical with Italian variety *Saint Ambrogio*.

## 213994 to 214004.

From Bolivia. Tubers collected by E. E. Smith, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Mar. 9, 1954.

213994. *BOMAREA* sp. Amaryllidaceae.

No. 182. Unduavi, La Paz. Altitude 10,500 feet. Vine with clusters of orange flowers. Feb. 23, 1954.

213995. *DIOSCOREA* sp. Dioscoreaceae.

No. 181. Unduavi, on road to Coroico, La Paz. Altitude 10,500 feet. Vine with small purple male flowers growing on bushes hanging over the road. Feb. 23, 1954.

213996. *DIOSCOREA* sp.No. 184. *Raiz de China*. Near Cotapata, 38 miles east of La Paz. Growing in wet moss on hillside. Tubers large, up to 5 pounds. Feb. 23, 1954.213997. *DIOSCOREA* sp.

No. 186. On road from Coroico to Choro, north of Yungas, La Paz. Altitude 4,000 feet. Feb. 24, 1954.

## 213994 to 214004—Continued

## 213998. DIOSCOREA sp.

No. 187. Twelve miles southeast of Unduavi on road to Chulumani, La Paz. Altitude 7,000 feet. Feb. 25, 1954.

## 213999. DIOSCOREA sp.

No. 188. Near Chulumani on road to Irapana, La Paz. Altitude 6,000 feet. Feb. 26, 1954.

## 214000. DIOSCOREA sp.

No. 189. *Papa de China Hembra*. Hacienda Machacamarcha, Chulumani, La Paz. Altitude 6,300 feet. Found on wet soil on hillside. Feb. 26, 1954.

## 214001. DIOSCOREA sp.

No. 190. *Papa de China Macho*. Hacienda Machacamarcha, Chulumani, La Paz. Altitude 7,000 feet. Somewhat narrow leaf usually of mottled green. Feb. 26, 1954.

## 214002. DIOSCOREA sp.

No. 192. *Mora*. Junction of Río Puro and Río Solocama, Chulumani, La Paz.

## 214003. DIOSCOREA LAGOA-SANTA Uline.

No. 193. *Mora*. Near bridge over Río Solocama, on road to Irapana, Chulumani, La Paz. Feb. 27, 1954.

## 214004. SOLANUM sp. Solanaceae.

No. 183. Road from Unduavi to Coroico, La Paz. Altitude 11,000 feet. Flowers purple. Feb. 23, 1953.

## 214005 to 214023.

From India. Collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Mar. 9, 1954.

From the Horticultural Research Station, Saharanpur. Altitude 1,600–1,800 feet. Feb. 15, 1954.

## 214005 and 214006. CITRUS AURANTIFOLIA (Christm.) Swingle. Rutaceae. Lime.

214005. No. 13619. *Jhambiri*. Rather tall spreading trees. (Budwood.)

214006. No. 13623. *Jhambiri*. Spreading tree with open crown.

## 214007. CITRUS LIMON (L.) Burm. f. Lemon.

No. 13620. *Persian Mitha*. Used in Palestine as root stock. Fruit medium-sized, juicy.

## 214008. CITRUS LIMETTA Risso. Sweet lime.

No. 13621. Very thorny diffusely branching tree with oval insipid fruits.

## 214009 to 214011. CITRUS GRANDIS (L.) Osbeck. Pummelo.

214009. No. 13611. *China White Flesh*. Small thornless tree with rather large stiff leaves.

214010. No. 13612. *Red-fleshed No. 1*. Symmetrical rounded tree.

214011. No. 13618. *Red-fleshed No. 2*. Small hardy tree.

## 214012. CITRUS PARADISI Macfad. Grapefruit.

No. 13622. *Atauni* (small). Medium-sized spreading trees.

**214005 to 214023—Continued**

214013 to 214016. CITRUS RETICULATA Blanco. Mandarin orange.

214013. No. 13613. Small spreading trees.

214014. No. 13614. *Hill Orange*. Small dark-leaved tree.

214015. No. 13615. Satsuma Mikan.

214016. No. 13616. *Ladi II*. Small spreading, rather diffuse tree.

214017 and 214018. LITCHI CHINENSIS Sonner. Sapindaceae. Lychee.

214017. *Calcuttia*. (No note.)

214018. *Late Seedling*. (No note.)

214019 to 214022. MANGIFERA INDICA L. Anacardiaceae. Mango.

Selected for Florida as hardier varieties with good fruit qualities. (Plants.)

214019. *Mango Dasher*.

214021. *Mango Langra*.

214020. *Mango Fajri Zafrani*.

214022. *Mango Rotoul*.

214023. PONCIRUS TRIFOLIATA (L.) Raf. Rutaceae.

No. 13617. Thorny shrub or treelet. (Seedlings.)

**214024 and 214025.**

From the Union of South Africa. Seeds presented by L. C. C. Liebenberg, Department of Agriculture, Pretoria, Transvaal. Received Mar. 9, 1954.

214024. CHLORIS PYCNOTHRIX Trin. Poaceae.

214025. CHLORIS VIRGATA Swartz.

From Sterkstroom.

**214026 to 214029.**

From India. Seeds collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Mar. 9, 1954.

214026. CITRUS AURANTIFOLIA (Christm.) Swingle. Rutaceae. Lime.

No. 13634. *Jambhiri*. Horticultural Research Station, Saharanpur, Uttar Pradesh. Diffusely branched tree with rough-skinned depressed fruits. Altitude 1,600–1,800 feet. Feb. 16, 1954.

214027. CITRUS GRANDIS (L.) Osbeck. Pummelo.

No. 13597. Market, Dehra Dun, Uttar Pradesh. Altitude 2,400 feet. Very large, oblong to obovoid, or globose fruits. Feb. 14, 1954.

214028. CITRUS LIMON (L.) Burm. f. Lemon.

No. 13596. Market, Dehra Dun, Uttar Pradesh. Large oblong, rough-skinned juicy lemon. Feb. 14, 1954.

214029. CITRUS sp.

(No note.)

214030. GLYCYRRHIZA GLABRA L. Fabaceae. Common licorice.

From Portugal. Cuttings presented by Miguel Moutinho Alvarazere, Lisbon. Received Mar. 9, 1954.

**214031 and 214032.**

From England. Trees purchased from Hillier & Sons, Winchester. Received Mar. 9, 1954.

214031. PRUNUS. Amygdalaceae.

*Hillier Hybrid*.

214032. PRUNUS CONCINNA Koehne.



**214033. PRUNUS PERSICA (L.) Batsch. Amygdalaceae. Peach.**

From Australia. Budwood presented by the Department of Agriculture, Sydney, New South Wales. Received Mar. 10, 1954.

*Success.*

**214034. ANDROPOGON SACCHAROIDES Swartz. Poaceae.**

From Brazil. Seeds collected by A. A. Beetle, Agricultural Explorer, United States Department of Agriculture. Received Dec. 18, 1952. Numbered Mar. 10, 1954.

Segregated from P. I. 204138 (Beetle 1829); originally from Rio Grande do Sul. Growing at the Regional Plant Introduction Station, Experiment, Ga.

**214035 to 214070.**

From India. Seeds collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Mar. 9, 1954.

**214035. HIBISCUS ESCULENTUS (L.) Malvaceae. Okra.**

No. 13459. *Bendekai*. Market, Mysore, Mysore State. Altitude 2,500 feet. Variety with small slender fruits. Jan. 12, 1954.

**214036. AMARANTHUS GANGETICUS L. Amaranthaceae.**

No. 13460. Market, Mysore, Mysore State. Altitude 2,500 feet. Leafy vegetable, eaten cooked. Jan. 12, 1954.

**214037. AMARANTHUS sp.**

No. 13523. Market, Taliperamba, Malabar Coast. Near sea level. Annual herb grown in gardens for greens and edible seeds. Jan. 28, 1954.

**214038. AMMI COPTICUM L. Apiaceae.**

No. 13364. Market, Baroda, Bombay State. Used as seasoning. Dec. 22, 1953.

**214039 and 214040. ANETHUM GRAVEOLENS L. Apiaceae. Dill.**

214039. No. 13359. *Soya*. Market, Baroda, Bombay State. Seed used as a seasoning in foods. Dec. 22, 1953.

214040. No. 13545. *Subseege*. Market, Mysore, Mysore State. Altitude 2,500 feet. Leafy vegetable, eaten cooked. Jan. 12, 1954.

**214041. CYAMOPSIS TETRAGONOLOBA (L.) Taub. Fabaceae. Guar.**

No. 13452. *Gorikai*. Market, Mysore, Mysore State. Altitude 2,500 feet. Small variety, eaten with curries. Jan. 12, 1954.

**214042. CASSIA BONARIENSIS Colla. Caesalpiniaceae.**

No. 13568. Bangalore, Mysore. Used as green manure crop. Feb. 1, 1954.

**214043. CICER ARIETINUM L. Fabaceae. Chickpea.**

No. 13529. Market, Telepernamba, Malabar Coast. Near sea level. Reported to come from Bombay. Jan. 28, 1954.

**214044. CITRULLUS VULGARIS Schrad. Cucurbitaceae. Watermelon.**

No. 13461. Kalungari. Market, Mysore, Mysore State. Altitude 2,500 feet. Round green melon with red flesh. Jan. 12, 1954.

**214045. CROTALARIA sp. Fabaceae.**

No. 13477. Near Virajpet, Coorg. Altitude 2,500 feet. Single-stemmed. Spreading annual, 4-7 decimeter high with a few divergent branches, yellow flowers and large pods. Jan. 14, 1954.

**214046. CROTALARIA sp.**

No. 13502. Pollibetta near Virajpet, Coorg. Altitude 3,000-3,500 feet. About 2½ feet high; flowers yellow. Jan. 17, 1954.

## 214035 to 214070—Continued

## 214047. CROTALARIA sp.

No. 13509. Fourteen miles east of Virajpet, Coorg. Altitude 2,500 feet. Slender perennial shrublets in forest shade, about 3 feet high. January 1954.

## 214048. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.

No. 13471. Market Mysore, Mysore State. Altitude 2,500 feet. Eaten raw. Jan. 12, 1954.

## 214049. CUCUMIS SATIVUS L. Cucumber.

No. 13472. *Sotikai*. Market, Mysore, Mysore State. Altitude 2,500 feet. Large fruits; eaten raw or cooked. Jan. 12, 1954.

## 214050. CUCUMIS sp.

No. 13558. Chettalli, Coorg State. Jan. 30, 1954. Annual vine with small ovoid, pale yellow, bitter fruits with weak sparse prickles.

## 214051. DIOSCOREA sp. Dioscoreaceae.

No. 13504. Fraserpet, Coorg. Altitude 2,500 feet. Bitter, but lower roots eaten. Jan. 17, 1954.

## 214052. DOLICHOS BIFLORUS L. Fabaceae.

No. 13569. Bangalore, Mysore. Used as green manure. Feb. 1, 1954.

## 214053. DOLICHOS LABLAB L. Hyacinth-bean.

No. 13466. Market, Mysore, Mysore State. Altitude 2,500 feet. Variety with dark seeds; dried beans cooked and eaten. Jan. 12, 1954.

## 214054. GOSSYPIUM sp. Malvaceae. Cotton.

No. 13556. Chettalli, Coorg State. Altitude 3,000–3,500 feet. Large spreading shrub with trunk 6 inches in diameter. Jan. 30, 1954.

## 214055 to 214058. Elettaria cardamomum (L.) Maton. Zingiberaceae. Cardamom.

214055. No. 13485. Kuramunda Estate, west of Virajpet, Coorg. Jan. 14, 1954. Altitude 3,500–4,000 feet. Upright, glabrous variety, forming large clumps of 12–20 stems.

214056. No. 13486. *Manjarabat*. Kuramunda Estate, west of Virajpet, Coorg. Canyon bottom. Altitude 3,500–4,000 feet. Semi-erect variety forming clumps 6 feet tall. Jan. 14, 1954.

214057. No. 13491. Hanchi Betta Estate, canyon near Virajpet, Coorg. Altitude 3,000 feet. Late variety. Jan. 15, 1954.

214058. No. 13492. Pollibetta Estate, near Virajpet, Coorg. Altitude 3,000 feet. Locally the best yielder. Jan. 15, 1954.

## 214059. Eleusine coracana (L.) Gaertn. Poaceae. African millet.

No. 13518. *Ragi*. Mysore, Mysore State. Used for human food and recently being processed for making malt. Jan. 27, 1954.

## 214060. Hibiscus sp. Malvaceae.

No. 13484. Eight miles northwest of Virajpet, Coorg. Canyon slope in evergreen tropical forest. Altitude 3,500 feet. Scandent thorny shrub with showy large yellow flowers with purple throat. Jan. 14, 1954.

## 214061. Pennisetum massaicum Stapf. Poaceae.

No. 13233. Dharwar Agricultural College, Dharwar, Bombay. Altitude 1,800 feet. Introduced from Australia and being tried as pasture grass. Dec. 11, 1953.

**214035 to 214070—Continued**

**214062 and 214063.** PHASEOLUS AUREUS Roxb. Fabaceae. **Mung bean.**

**214062.** No. 13449. Market, Mysore, Mysore State. Altitude 2,500 feet. Jan. 12, 1954.

**214063.** No. 13527. Market, Talipernamba, Malabar Coast. Jan. 28, 1954.

**214064.** PISUM SATIVUM L. Fabaceae. **Pea.**

No. 13451. *Batani*. Market, Mysore, Mysore State. Eaten both green and dry. Jan. 12, 1954.

**214065.** PITHECELLOBIUM sp. Mimosaceae

No. 13557. Chettalli, Coorg State. Altitude 3,000–3,500 feet. Scandent tree twisting and climbing on other trees. Pods and seeds ground and used for soap. Jan. 30, 1954.

**214066.** RAPHANUS SATIVUS L. Brassicaceae. **Radish.**

No. 13462. Market, Mysore, Mysore State. Altitude 2,500 feet. Jan. 12, 1954.

**214067.** TECTONA GRANDIS L. f. Verbenaceae. **Teak.**

No. 13506. Fraserpet, Coorg. Altitude 2,500 feet. Trees 40–50 feet tall. Jan. 17, 1954.

**214068.** TEPHROSIA sp. Fabaceae.

No. 13501. Pollibetta, near Virajpet, Coorg. Jan. 17, 1954. Altitude 3,000–3,500 feet. Shrub 6 feet high with hairy yellow pods. Used as a soil builder in orchards. Jan. 17, 1954.

**214069.** VIGNA SINENSIS (Torner) Savi. Fabaceae. **Cowpea.**

**214070.** (Undetermined.) Poaceae. **Bamboo.**

No. 13487. Kuramunda Estate, west of Virajpet, Coorg. Altitude 3,500–4,000 feet. Large clumps of slender canes  $\frac{1}{2}$ – $\frac{3}{4}$  inch in diameter, 15–18 feet long in open, 25–30 feet long up through trees.

**214071 and 214072.** PRUNUS PERSICA (L.) Batsch. Amygdalaceae. **Peach.**

From Italy. Trees and budsticks presented by Arturo Ansaloni, Bologna. Received Mar. 11, 1954.

**214071.** *Madame Kira Evreinoff*.

**214072.** *Mini del Foris*.

**214073.** MENTHA LONGIFOLIA (L.) Huds. Menthaceae.

From Switzerland. Seeds presented by the Botanical Garden, Geneva. Received Feb. 24, 1953; numbered Mar. 11, 1954.

Segregated from P. I. 205506 (*Mentha spicata*); plants growing at the Regional Plant Introduction Station, Ames, Iowa.

**214074 to 214077.** ORYZA SATIVA L. Poaceae. **Rice.**

From Maryland. Seeds held at the Plant Industry Station, Beltsville. Numbered Feb. 11, 1954.

**214074 and 214075.** Costa Rica, 1951.

**214074.** *Berlin*.

**214075.** *Palmira No. 8*.

**214076 and 214077.** Jamaica. Sent in by James F. Gore, Half-way Tree, December 1952.

**214076.** *Buffalo*.

**214077.** *Sereno*.



**214078. FLACOURTIA INDICA (Burm. f.) Merr. Flacourtiaceae.**

From India. Seeds presented by the Indian Botanic Garden, Calcutta. Received Mar. 11, 1954.

**214079 and 214080. MALUS SYLVESTRIS Mill. Malaceae. Apple.**

From Denmark. Scions presented by Count F. M. Knuth, Knuthenborg, Bandholm. Received Mar. 11, 1954.

214079. *Ingrid Marie Schneiders Red Strain.*

214080. *Red Australian Rome Beauty.*

**214081 to 214085. ZEA MAYS L. Poaceae.****Corn.**

From Ecuador. Seeds presented by the Servicio Cooperativo Inter-Americano de Agricultura, Quito. Received Mar. 11, 1954.

214081. No. 36-2-A.

214082. No. 37.

214083. No. 37-S.

214084. No. 40. Tropical station, Pichilingue.

214085. No. 40-1.

**214086 to 214092. PYRUS BETULAEFOLIA Bunge. Malaceae. Pear.**

From Germany. Scions presented by the Horticultural Research Station, Institut für Gartenbau, Dresden-Pillnitz. Received Mar. 11, 1954.

214086. P6 33.

214090. P6 142.

214087. P6 40.

214091. P6 246.

214088. P6 43.

214092. P6 443.

214089. P6 140.

**214093 and 214094.**

From Argentina. Seeds presented by the Ministerio de Agricultura y Ganadería, Buenos Aires. Received Mar. 11, 1954.

214093. *CHLORIS CANTERAI* Arech.

214094. *CHLORIS RETUSA* Lag.

**214095 to 214116.**

From Spain. Seeds presented by the Botanic Garden, Madrid. Received Mar. 12, 1954.

214095. *ASTRAGALUS ARMENIACUS* Boiss. Fabaceae.

BN-7866.

214096. *ASTRAGALUS HAMOSUS* L.

BN-7873.

214097. *ASTRAGALUS MEXICANUS* DC.

BN-7874.

214098. *ASTRAGALUS PODOCARPUS* C. A. Mey.

BN-7879.

214099. *ASTRAGALUS REFRACTUS* C. A. Mey.

BN-7880.

214100. *ASTRAGALUS SCORPIOIDES* Pourr.

BN-7884.



## 214095 to 214116—Continued

214101. *ASTRAGALUS STIPULATUS* D. Don.  
BN-7881.
214102. *ASTRAGALUS TRIMESTRIS* L.  
BN-7885.
214103. *ASTRAGALUS* sp.  
BN-7867.
214104. *CROTALARIA VERRUCOSA* L. Fabaceae.  
BN-7892.
214105. *DESMODIUM CUSPIDATUM* Hook. Fabaceae.  
BN-7895.
214106. *DESMODIUM DILLENII* Darl.  
BN-7896.
214107. *DESMODIUM INTORTUM* (Willd.) Urb.  
BN-7897.
214108. *DESMODIUM CANADENSE* (L.) DC.  
BN-7898.
214109. *LOTUS ARABICUS* L. Fabaceae.  
BN-7906.
- 214110 and 214111. *LOTUS ANGUSTISSIMUS* L.  
214110. BN-7905.  
214111. BN-7911.
- 214112 and 214113. *LOTUS CORNICULATUS* var. *HIRSUTUS* Koch.  
214112. BN-7914.  
214113. BN-7912.
214114. *LOTUS CORNICULATUS* var. *GLABER* Rouy.  
BN-7910.
214115. *MEDICAGO GLOBULOSA* Desv. Fabaceae.  
BN-7923.
214116. *MELILOTUS INDICA* (L.) All. Fabaceae.  
BN-7935.

## 214117 and 214118.

From Brazil. Seeds planted at the Regional Plant Introduction Station,  
Experiment, Ga. Numbered Mar. 15, 1954.

Collected by R. MacArdle at Rió Grande do Sul.

214117. *ADESMIA BICOLOR* (Poir.) DC. Fabaceae.  
*Babosa*.

214118. *PASPALUM NOTATUM* Fluegge. Poaceae.

**Bahia grass.**

**214119 to 214126.**

From Bolivia. Seeds collected by E. E. Smith, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Mar. 15, 1954.

From the Estación Experimental Agrícola, Cochabamba. Altitude 8,400 feet. Feb. 18, 1954.

214119. *ALLIUM CEPA* L. Liliaceae. Onion.

No. 172.

214120. *CUCURBITA FICIFOLIA* Bouché. Cucurbitaceae. Allcallota.

No. 173. *Lacayote*.

214121. *CUCURBITA MAXIMA* Duchesne. Squash.

No. 174. *Zapallo*.

214122. *CUCURBITA PEPO* L. Pumpkin.

No. 175. *Escariote*.

214123 to 214126. *ZEA MAYS* L. Poaceae. Corn.

214123. No. 168. White soft corn.

214124. No. 169. Yellow soft corn.

214125. No. 170. Native sweet corn.

214126. No. 171. Chuspilla Blanca.

**214127 to 214132.**

From Australia. Seeds presented by R. H. Patterson, Department of Works, Adelaide, South Australia. Received Mar. 15, 1954.

214127. *ACACIA* sp. Mimosaceae.

214128. *CASSIA ARTEMISIOIDES* Gaud. Caesalpiniaceae.

214129. *EUCALYPTUS CAMALDULENSIS* var. *OBTUSA* Blakely. Myrtaceae.

214130. *EUCALYPTUS CAMPASPE* S.L. Moore.

A fast-growing, drought-resistant tree, up to 60 feet high.

214131. *EUCALYPTUS TORQUATA* Luehm.

A small tree, up to 15 feet high, with small red flower.

214132. *LAGUNARIA PATERSONII* (Andr.) Don. Malvaceae.

An evergreen, salt-resistant tree, with pale-red flowers.

**214133 and 214134. *TRIFOLIUM SEMIPILOSUM* Fresen. Fabaceae.**

From Kenya. Seeds presented by the Grassland Research Station, Kitale. Received Mar. 15, 1954.

214133. A.

214134. B.

**214135 and 214136.**

From Cuba. Tubers collected by Bernice Schubert, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Mar. 16, 1954.

From Sierra de Nipé, Oriente. Mar. 2, 1954.

214135. *DIOSCOREA* sp. Dioscoreaceae.

No. 192.

214136. *DIOSCOREA* sp.

No. 191.

**214137 to 214144.**

From Greece. Scions presented by W. H. Alderman, Near East Foundation.  
Received Mar. 16, 1954.

- 214137 to 214143. *PRUNUS ARMENIACA* L. Amygdalaceae. Apricot.  
 214137. No. 1. From Serres. Fruits medium to small.  
 214138. No. 2. From Serres. Fruits large, flattened.  
 214139. No. 3. From Leptocaris. Fruit orange red, of medium size, very early.  
 214140. No. 4. Malata. Fruits large, greenish, of good quality. Originally from Turkey.  
 214141. No. 5. Malata. Fruit of medium size, round, orange red.  
 214142. No. 6. Athens.  
 214143. No. 7. Athens.  
 214144. *PRUNUS DOMESTICA* L. Common plum.  
 No. 8. *Agen Prune*. From the Island of Scopelos. Fruits larger than the French prune and possibly sweeter; self sterile.

**214145. MALUS. Malaceae.**

From Nova Scotia. Scions presented by the Dominion Entomological Laboratory, Kentville. Received Mar. 16, 1954.

*K 33-112-3.*

**214146 to 214181.**

From India. Seeds collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Mar. 16, 1954.

214146. *ALLIUM CEPA* L. Liliaceae. Onion.  
 No. 12458. *Iruli*. Market, Mysore, Mysore. Altitude 5,000 feet. Reddish-brown bulb. Jan. 12, 1954.  
 214147. *ASTRAGALUS SINICUS* L. Fabaceae.  
 No. 13256. Poona, Bombay. Originally from Japan. Dec. 14, 1953.  
 214148. *BRASSICA OLERACEA* var. *CAPITATA* L. Brassicaceae. Cabbage.  
 No. 13454. *Kos*. Market, Mysore, Mysore. Altitude 2,500 feet. Jan. 12, 1954.  
 214149. *CAJANUS CAJAN* (L.) Druce. Fabaceae. Pigeonpea.  
 No. 13525. *Toora*. Market, Telipunamba, Malabar Coast. Jan. 28, 1954.  
 214150. *CARTHAMUS TINCTORIUS* L. Asteraceae. Safflower.  
 No. 13519. Mysore, Mysore. Jan. 27, 1954.  
 214151 and 21452. *CICER ARIETINUM* L. Fabaceae. Chickpea.  
 214151. No. 13444. *Kadle Karlu*. Market, Mysore, Mysore. Altitude 2,500 feet. Seeds small. Jan. 12, 1954.  
 214152. No. 13528. *Cardelai*. Market, Talipunamba, Malabar Coast. Jan. 28, 1954.  
 214153. *CROTALARIA* sp. Fabaceae.  
 No. 13515. Malankara Rubber Estate, Todopuda, Travancore-Cochin. Small slender shrub with pale yellow flowers. Jan. 22, 1954.

## 214146 to 214181—Continued

214154. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.

No. 13533. *Velerika*. Talipernamba market, Malabar Coast. Small elliptic, green- and yellow-brindled melon with thick white flesh to center; edible but never sweet. Jan. 28, 1954.

214155. CUCUMIS sp.

No. 13488. Pollibetta Coffee Estates, near Virajpet, Coorg. Annual vine with light green faintly striped oblong fruits 2-3 inches long. Eaten by cattle. Jan. 14, 1954.

214156. CUCURBITA MOSCHATA Duchesne. Cucurbitaceae. Cushaw.

No. 13453. *Kumbal kai*. Market, Mysore, Mysore. Altitude 2,500 feet. Yellow, ribbed, oblate medium-sized; cooked and eaten as a vegetable. Jan. 12, 1954.

214157. DESMODIUM sp. Fabaceae.

No. 13496. Balmane Estate, 20 miles east of Virajpet, Coorg. Altitude 2,900 feet; rainfall 45 inches. Plant 6 feet high. Jan. 17, 1954.

214158. DESMODIUM TORTUOSUM (Sw.) DC.

No. 13567. Bangalore, Mysore. Granite soils. Used as green manure. Feb. 1, 1954.

214159. DIOSCOREA sp. Dioscoreaceae.

No. 13478. Six miles northwest of Virajpet, Coorg. Altitude 3,000 feet. Jan. 14, 1954.

214160. DIOSCOREA sp.

No. 13498. Balmane Estate, 20 miles east of Virajpet, Coorg. Altitude 2,900 feet; rainfall 45 inches. Jan. 17, 1954.

214161. DIOSCOREA sp.

No. 13503. Fraserpet, Coorg. Altitude 2,500 feet. Jan. 17, 1954.

214162. DIOSCOREA sp.

No. 13505. Fraserpet, Coorg. Altitude 2,500 feet. Jan. 17, 1954.

214163. DOLICHOS LABLAB L. Fabaceae. Hyacinth-bean.

No. 13443. *Auray Kalu*. Market, Mysore, Mysore State. Altitude 2,500 feet. Fresh green bean removed from pod and eaten. Jan. 12, 1954.

214164 to 214166. DOLICHOS BIFLORUS L.

214164. No. 13446. *Pulis*. Market, Mysore, Mysore. Used for feed and as a table bean. Jan. 12, 1954.

214165. No. 13526. *Mudra*. Market, Talipernamba, Malabar Coast. Edible bean. Jan. 28, 1954.

214166. No. 13570. *HU.O. 30*. Bangalore, Mysore. Granitic soils. Used as green manure. Feb. 1, 1954.

214167. INDIGOFERA sp. Fabaceae.

No. 13500. Pollibetta Estates, Coorg. Altitude 3,000 feet. Bushy shrub pruned to height of 12 inches. Used as cover crop in *Citrus* orchards. Jan. 17, 1954.

214168. LAGENARIA LEUCANTHA (Duch.) Rusby. Cucurbitaceae. Calabash gourd.

No. 13464. *Soraykai*. Market, Mysore, Mysore. Altitude 2,500 feet. Vine cultivated on trellis; fruit used as cooked vegetable.



## 214146 to 214181—Continued

214169. *MOMORDICA CHARANTIA* L. Cucurbitaceae. Balsam-pear.

No. 13463. *Pardolkai*. Market, Mysore, Mysore. Altitude 2,500 feet. Vine cultivated on supports. Fruits eaten as cooked vegetable. Jan. 12, 1954.

214170. *PHASEOLUS LUNATUS* L. Fabaceae. Lima bean.

No. 13457. *Chapadurekai*. Market, Mysore, Mysore. Altitude 2,500 feet. Jan. 12, 1954.

214171. *PHASEOLUS MUNGO* L. Urd.

No. 13448. Market, Mysore, Mysore. Altitude 2,500 feet. Jan. 12, 1954.

214172. *PHASEOLUS VULGARIS* L. Common bean.

No. 13450. Market, Mysore, Mysore. Altitude 2,500 feet. Jan. 12, 1954.

214173. *PIPER NIGRUM* L. Piperaceae. Black pepper.

No. 13494. *Balamcotta*. Balmane Estate, 20 miles east of Virajpet, Coorg. Altitude 2,900 feet; rainfall 45 inches. Vigorous old vine. Jan. 17, 1954.

214174. *SESAMUM INDICUM* L. Pedaliaceae. Sesame.

No. 13530. Market, Talipernamba, Malabar Coast. Jan. 28, 1954.

214175. *SESBANIA GRANDIFLORA* (L.) Poir. Fabaceae.

No. 13520. Mysore, Mysore. Seed reported to have 70 percent protein. Jan. 27, 1954.

214176. *SESBANIA SPECIOSA* Taub.

No. 13522. Agricultural Research Farm, Talipernamba, Malabar. Near sea level. Virgate annual, used as green manure.

214177. *SOLANUM MELONGENA* L. Solanaceae. Eggplant.

No. 13465. *Badanekai*. Market, Mysore, Mysore. Altitude 2,500 feet. Local, rather small slender variety, mostly purple. Jan. 12, 1954.

214178. *SORGHUM VULGARE* Pers. Poaceae.

No. 13531. *Chorlo*. Market, Talipernamba, Malabar Coast. Jan. 28, 1954.

214179. *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae. Fenugreek.

No. 13524. *Uluva*. Market, Talipernamba, Malabar Coast. Jan. 28, 1954.

214180 and 214181. *VIGNA SINENSIS* (Torner) Savi. Fabaceae. Cowpea.

214180. No. 13447. *Ascaramani*. Market, Mysore, Mysore. Altitude 2,500 feet. Jan. 12, 1954.

214181. No. 13534. Market, Canannore, Malabar Coast. Jan. 28, 1954.

214182 and 214183. *PRUNUS AVIUM* L. Amygdalaceae.

Sweet cherry.

From the Netherlands. Scions presented by C. J. Gerritsen, Institute of Horticultural Plant Breeding, Wageningen. Received Jan. 28, 1954.

Numbered Mar. 16, 1954.

214182. *Abbesse de Mouland*.

214183. *Glorie de La Meuse*.

214184. *CAMELLIA RUSTICANA*. Honda. Theaceae.

From Japan. Seeds presented by Eikichi Satomi, Setogaya, Tokyo. Received Mar. 16, 1954.

- 214185. PYRUS CALLERYANA** Decaisne. Malaceae. **Pear.**  
From Australia. Budwood presented by the Department of Agriculture,  
Farrer Place, Sydney, New South Wales. Received Mar. 17, 1954.  
*D6.*
- 214186 to 214204. ZEA MAYS L.** Poaceae. **Corn.**  
From Canada. Seeds presented by S. B. Helgasen, University of Manitoba,  
Winnipeg, Manitoba. Received Mar. 17, 1954.  
Localities given are original sources of material.
214186. *Bailey*. Dominion Experimental Station, Harrow, Ontario.  
214187. *Beacon*. Division of Forage Plants, Central Experimental Farm.  
214188. *Comptom's Early*. Ontario Agricultural College, Guelph, Ontario.  
214189. *Falconer*. Agronomy Department, Manitoba Agricultural College,  
Winnipeg, Manitoba.  
214190. *Gehu*. Agronomy Department, Manitoba Agricultural College,  
Winnipeg, Manitoba.  
214191. *Golden Glow* (early). Dominion Experimental Station, Harrow,  
Ontario.  
214192. *Golden Glow* (medium). Dominion Experimental Station, Har-  
row, Ontario.  
214193. *Golden Glow* (late). Dominion Experimental Station, Harrow,  
Ontario.  
214194. *Howe's Alberta Flint*. Agronomy Department, University of Al-  
berta, Edmonton, Alberta.  
214195. *Longfellow*. Field Husbandry Department, Agriculture College,  
Guelph, Ontario.  
214196. *Manalto*. Agronomy Department, Manitoba Agricultural College,  
Winnipeg, Manitoba.  
214197. *Minnesota #13*. Ontario Agricultural College, Guelph, Ontario.  
214198. *Northwestern Dent* (Brandon strain). Dominion Experimental  
Farm, Brandon, Manitoba.  
214199. *Rainboat Flint*. Dominion Experimental Station, Morden, Mani-  
toba.  
214200. *Rutherford*. Agronomy Department, University of Saskatchewan,  
Saskatoon, Saskatchewan.  
214201. *Salzer's White Flint*. D. H. Laird, Belmheim, Ontario.  
214202. *Saskatchewan White Flint*. Dominion Experimental Station,  
Swift Current, Saskatchewan.  
214203. *Twitchell's Pride*. Dominion Experimental Station, Fredericton,  
New Brunswick.  
214204. *Wisconsin #7*. Dominion Experimental Station, Harrow, On-  
tario.
- 214205. TRIFOLIUM ALEXANDRINUM L.** Fabaceae. **Berseem.**  
From Italy. Seeds presented by Artschneider Sement, Bologna. Received  
Mar. 17, 1954.
- 214206. RICINUS COMMUNIS L.** Euphorbiaceae. **Castorbean.**  
From France. Seeds presented by the Cooperative Ouvriere de Production,  
Toulouse. Received Mar. 17, 1954.  
*Pseuloandrogyna.*

**214207 and 214208. TRIFOLIUM REPENS L. Fabaceae.****White clover.**

From Israel. Seeds presented by I. Arnon, Agricultural Research Station, Rehovot. Received Mar. 17, 1954.

214207. *Huleh*.214208. *Jordan*.**214209 to 214215. ZEA MAYS L. Poaceae.****Corn.**

From Mexico. Seeds presented by W. R. Richardson, Rockefeller Foundation, Mexico, Federal District. Received Mar. 18, 1954.

214209. No. 3000. *Chinandega*. 214213. No. 2099. *Oloton*.214210. No. 3001. *Corriente Viejano*. 214214. *P.D. (MS) 6*.214211. No. 2098. *Negrito*. 214215. No. 3. *Venezuela*.214212. No. 3002. *Olotillo*.**214216. GLYCYRRHIZA sp. Fabaceae.****Licorice.**

From Turkey. Seeds presented by the Agricultural Attache, American Embassy, Ankara. Received Mar. 19, 1954.

**214217. CYMBOPOGON FLEXUOSUS (Nees) Stapf. Poaceae.****Malabar grass.**

From India. Seeds presented by the Lemongrass Research Station, Odakkali, Perambavoor, Travancore-Cochin State. Received Mar. 19, 1954.

**214218 and 214219. MEDICAGO FALCATA L. Fabaceae.****Yellow-flowered alfalfa.**

From Denmark. Seeds presented by H. Moller Nielsen, Taastrup. Received Mar. 19, 1954.

214218. No. 8701.

214219. No. 8704.

**214220 and 214221. CAMELLIA RETICULATA Lindl. Theaceae.**

From Formosa. Cuttings presented by Dr. Yuen-liang Ku, National Taiwan University, Taipeh. Received Mar. 19, 1954.

214220. *Campanulata*.214221. *Wabisuke*.**214222 to 214241.**

From Belgium. Scions presented by the Director, L'Institute Agronomique et des Station de Recherches, Gembloux. Received Mar. 22, 1954.

214222 to 214239. *PRUNUS AVIUM L. Amygdalaceae. Sweet cherry.*214222. *Abesse de Mouland* 214230. *Late Kraker.*  
*Rouge.*214223. *Bigarreau Elton-* 214231. *Lieveling.*  
*Kraaibek.*214224. *Bigarreau Jaboulay—* 214232. *Noire de Kerniel.*  
*Vroege van Gelmen.* 214233. *Pater van Mansfeld.*214225. *Bigarreau C 47.* 214234. *Polsche.*214226. *Cuvelier.* 214235. *Puntkers.*214227. *Hedelfinger* 214236. *Ossekop.*  
*Riesenkirsche.* 214237. *Schneiders*  
*Knorfelkirsche.*214228. *Lamotte.* 214238. *Udensche Spaansche.*214229. *Late Bruine Bigarreau.* 214239. *Wimmertingse.*



**214222 to 214241—Continued**

214240 and 214241. *PRUNUS CERASUS* L. Sour cherry.

214240. *Griotte Commune.*

214241. *Grosse Griotte.*

**214242. DIOSCOREA LAGOA-SANTA Uline. Dioscoreaceae.**

From Japan. Tuber obtained through the Plant Quarantine Branch, United States Department of Agriculture. Received Mar. 22, 1954.

Intercepted at Houston, Tex., Feb. 25, 1954, on Japanese S.S. Shinsei Maru No. 3.

**214243. PRUNUS CERASIA Bl. Amygdalaceae.**

From Israel. Seeds presented by R. M. Samish, Agricultural Experiment Station, Ministry of Agriculture, Rehovoth. Received Mar. 22, 1954.

**214244. DIOSCOREA sp. Dioscoreaceae.**

From Cuba. Tubers collected by Bernice Schubert, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Mar. 22, 1954.

No. 234. Soroa, Pinar del Río Province. Mar. 11, 1954.

**214245. RANDIA sp. Rubiaceae.**

From India. Seeds collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Mar. 22, 1954.

No. 13499. Balmane Estate, 20 miles east of Virajpet, Coorg. Altitude 2,900 feet. Rainfall 45 inches. Low spreading small tree with long branches, and ovoid green fruits used for poisoning fish.

**214246 to 214252. PYRUS BETULAEFOLIA Bunge. Malaceae. Pear.**

From Germany. Cuttings presented by the Institut für Gartenbau, Dresden-Pillnitz. Received Mar. 22, 1954.

214246. P6-18. 214250. P6-299.

214247. P6-25. 214251. P6-443.

214248. P6-40. 214252. P6-246.

214249. P6-227.

**214253 and 214254.**

From India. Rhizomes collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Mar. 23, 1954.

From Balbag Botanic Garden, Bangalore, Mysore. Mar. 11, 1954.

214253. *CANNA EDULIS* Ker. Cannaceae.

No. 13771. Tubers edible, boiled like potatoes, with 20-22 percent starch.

214254. *CANNA INDICA* L.

No. 13772. A mixture of several ornamental forms, with flowers of various colors.

**214255. MEDICAGO SATIVA L. Fabaceae.**

**Alfalfa.**

From Egypt. Seeds collected by O. S. Aamodt, Technical Cooperation Specialist, Plant Industry Station, Beltsville, Md. Received Mar. 16, 1954.

From Desert Range Project, Fuka, April 1953.



**214256 to 214259. SESAMUM INDICUM L. Pedaliaceae. Sesame.**

From Iraq. Seeds presented by Shelby Cain, Foreign Operations Administration, Baghdad. Received Mar. 23, 1954.

214256. *Local No. 8.*

214258. *Rousiun.*

214257. *Mosol No. 28.*

214259. *White Jiza.*

**214260. DIOSCOREA sp. Dioscoreaceae.**

From India. Tubers collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Mar. 23, 1954.

No. 13693. Between Kalka and Simla along road, Pepsul. Altitude 2,500 feet. Feb. 25, 1954.

**214261. CITROPSIS DAWEANA Swing. & M. Kell. Rutaceae.**

From Southern Rhodesia. Seeds presented by the Department of Research and Specialist Services, Causeway. Received Mar. 24, 1954.

**214262 to 214267.**

From Japan. Seeds presented by Tomio Nakano, Atubetu, Sapporo, Hokkaido. Received Mar. 24, 1954.

214262. *BRASSICA. Brassicaceae.*

*Brassica pekinensis* × *oleracea*.

214263. *PUERARIA LOBATA* (Willd.) Ohwi. *Fabaceae.*

**Kudzu.**

214264. *TRIFOLIUM HYBRIDUM* L. *Fabaceae.*

**Alsike clover.**

214265. *VICIA JAPONICA* A. Gray. *Fabaceae.*

214266. *VICIA* sp.

No. 1.

214267. *VICIA* sp.

No. 2.

**214268 to 214271. GOSSYPIUM. Malvaceae.**

**Cotton.**

From the Belgian Congo. Seeds presented by the Station de Recherches Agronomiques de Bambesa, Bambesa. Received Mar. 25, 1954.

214268. *Bambesa 197.*

214270. *Ston 2.*

214269. *DPL 11A1.*

214271. *Ston 5* × *Clev. W. 867.*

**214272. RUBUS sp. Rosaceae.**

**Wild raspberry.**

From the Union of South Africa. Seeds presented by J. Leslie Parkhouse, Wonderhoogte Farm, Utrecht, Natal. Received Mar. 26, 1954.

*Zulu.*

**214273 to 214281. ZEA MAYS L. Poaceae.**

**Corn.**

From Canada. Seeds presented by MacDonald College, McGill University, Quebec. Received Mar. 26, 1954.

A collection of corn varieties assembled from various parts of the Province of Quebec.

214273. *Northwestern Dent.* A reddish dent of unknown origin.

214274. *Quebec 28.* A yellow flint from Reed Farm, Ulverton.

214275. A yellow flint from Florent Locas Farm, St. Alesis, Montcalm Co.

214276. A yellow flint from Alfred Migué Farm, St. Jacques, Montcalm Co.

214277. A large-eared white flint from H. Payette Farm, l'Epiphanie.

**214273 to 214281—Continued**

214278. An 8-rowed yellow flint from Geo. A. Booth Farm, West Shefford.

214279. *Gaspe Yellow Flint*. An 8-rowed yellow flint originally from near Gaspe Village.

214280. A very large-eared flint from M. Lafortune Farm, St. Gerare.

214281. An 8-rowed yellow flint from Arthur Montagne Farm, Stanbridge Farm.

**214282. FRAGARIA NILGERRENSIS Schlecht. Rosaceae.**

From India. Plants collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Mar. 26, 1954.

No. 13849. Dodo Betta Mountains, near Ootacamund, Nilgiris. Altitude 8,000 feet. Small plants in dry soil growing along grassy swales and protected slopes. Mar. 18, 1954.

**214283 to 214285. SACCHARUM. Poaceae. Sugarcane.**

From Formosa. Cuttings presented by the Taiwan Sugar Experiment Station, Pinjtung. Received Mar. 26, 1954.

214283. 43-52.

214284. 48-4.

214285. 48-67.

**214286. MALUS SYLVESTRIS Mill. Malaceae. Apple.**

From Italy. Scions presented by the Istituto di Frutticoltura ed Elettrogenetica, Rome. Received Mar. 29, 1954.

*Porporata*.

**214287 to 214297. ZEA MAYS L. Poaceae. Corn.**

From Iowa. Seeds planted at the Regional Plant Introduction Station, Ames. Numbered Mar. 29, 1954.

Open-pollinated varieties obtained through K. H. Jarvis, Pioneer Hi-bred Corn Co., Johnston, Iowa.

214287. *Cassel White*. Kansas State College, New Cambria, Kans.

214288. *Cottrell's Best White*. Merion Ross, Poseyville, Ind.

214289. *Early White*. C. H. Miller, Clarion, Iowa.

214290. *Emges White*. Marion Ross, Poseyville, Ind.

214291. *Havel Long Ear* (composite of S1 seed) James Havel, Ainsworth, Iowa.

214292. *Kansas Sunflower*. Kansas State College, New Cambria, Kans.

214293. *Lancaster Sure Cropper*. Charles Ricodorf, Lancaster, Pa.

214294. *Leaming*. Hershel Long, Yellow Springs, Ohio.

214295. *Pride of Saline*. Kansas State College, Agronomy Farm.

214296. *Rainbow Flint*. J. C. Hooker, Fulton, S. Dak.

214297. *Thomas Utility White Corn*. Don Thomen. Newman, Ill.

**214298. BRASSICA OLERACEA var. VIRIDIS L. Brassicaceae. Kale.**

From England. Seeds presented by Cannell & Sons, Loddon, Norfolk. Received Mar. 29, 1954.

**214299 to 214301. PIPER NIGRUM L. Piperaceae. Black pepper.**

From India. Collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Mar. 29, 1954.

214299. No. 13866. *Kall-balamcotta*. Woshully Estate, Pollibetta, Coorg. Mar. 20, 1954. (Cuttings.)

214300. No. 13848. Dodo Betta Mountain, near Ootacamund, Mar. 18, 1954. Altitude 7,800 feet. Rainfall 50 inches. Wild vine; dioecious spikes 5 inches long, some well-filled with large berries, scarcely pungent. (Seeds.)

214301. No. 13867. *Kall-balamcotta*. Woshully Estate, Pollibetta, Coorg. Mar. 20, 1954. (Seeds.)

**214302 to 214305. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. Sweetpotato.**

From Peru. Cuttings collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Mar. 30, 1954.

La Molina Experiment Station, Lima. Mar. 26, 1954.

214302. No. 486-C. *Zapallo*.

214304. No. 488-C. *Chancleta*.

214303. No. 487-C.  
*Paramonguino*.

214305. No. 489-C. *Lirio*.

**214306 to 214354.**

From India. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Mar. 30, 1954.

214306 and 214307. *AVENA SATIVA* L. Poaceae.

Oats.

214306. No. 13717. Government seed farm, Sirsa, Punjab. February 1954. Sandy loam. Early maturing variety cultivated for fodder; irrigated.

214307. No. 13718. Government seed farm, Sirsa, Punjab. February 1954. Sandy loam. Late maturing variety; irrigated.

214308. *BRASSICA RAPA* L. Brassicaceae.

Turnip.

No. 13469. Market, Mysore. Jan. 12, 1954. Altitude 2,500 feet. White-rooted turnip sometimes eaten raw; mostly cooked.

214309 and 214310. *CANTHAROSPERMUM SCARABAEOIDUM* (L.) Baill. Fabaceae.

214309. No. 13178. Six miles south of Dharwar, Bombay State. Dec. 10, 1953. Rocky slope. A procumbent, perennial with yellow flowers.

214310. No. 13247. Eight miles west of Poona, Bombay. Dec. 13, 1953. Grassland on volcanic hills.

214311 to 214314. *CICER ARIETINUM* L. Fabaceae.

Chickpea.

214311. No. 13595. Market, Dehra Dun. Feb. 14, 1954. Altitude 2,400 feet. Small smooth seeds.

214312. No. 13650. Market, Hissar, Punjab. Feb. 20, 1954. Sandy plain. Small white seeds with little sculpturing.

214313. No. 13657. *Gram*. Badopl, Hissar District, Punjab. Feb. 21, 1954. Sandy dune; dryfarming during winter.

214314. No. 13689. Market, Moga, Punjab. Feb. 24, 1954. Sandy plain. Dry-farmed; seeds, round, white.



## 214306 to 214354—Continued

214315. *CITRULLUS COLOCYNTHIS* (L.) Schrad. Cucurbitaceae. Colocynth.

No. 13658. Four miles north of Badopl, Hissar District, Punjab. Feb. 21, 1954. Dune sands. Perennial vine with thick rootstock and round, yellow-green, orange-sized fruits. Used medicinally.

214316. *CITRULLUS VULGARIS* Schrad. Watermelon.

No. 13681. Market, Ferozepur, Punjab. Feb. 23, 1954.

214317. *CROTALARIA* sp. Fabaceae.

No. 13605. Ten miles west of Dehra Dun, along road to Saharampur. Feb. 14, 1954. Hardwood forest area. Plant herbaceous, 10 inches high, apparently flowering twice a year.

214318. *CUCUMIS MELO* L. Cucurbitaceae. Muskmelon.

No. 13682. Market, Ferozepur, Punjab. Feb. 23, 1954. Sandy plain.

214319 and 214320. *CYAMOPSIS TETRAGONOLOBA* (L.) Taub. Fabaceae. Guar.

214319. No. 13678. Market, Ferozepur, Punjab. Feb. 23, 1954. Sandy plain. Grown in summer for forage and green manure. Seeds used as cattle food.

214320. No. 13711. Government seed farm, Sirsa, Punjab. February 1954. Sandy loam. Selected variety cultivated for forage.

214321. *DOLICHOS BIFLORUS* L. Fabaceae.

No. 13594. Market, Dehra Dun. Feb. 14, 1954. Altitude 2,400 feet. Small table bean.

214322. *DIOSCOREA* sp. Dioscoreaceae.

No. 13600. Seven miles west of Dehra Dun. Feb. 14, 1954.

214323. *ELETTARIA CARDAMOMUM* (L.) Maton. Zingiberaceae. Cardamom.

No. 13734. Kulladakurichi, Tinnevely District. February 1954.

214324 and 214325. *ERUCA SATIVA* Mill. Brassicaceae. Salad-rocket.

214324. No. 13581. *Teara Mira*. Market, Dehra Dun. Feb. 13, 1954. Cultivated for oil.

214325. No. 13660. Four miles north of Badopl, Hissar District, Punjab. Feb. 21, 1954. Sandy desert. Winter annual, dry-farmed with other crops. Seeds fed to cattle.

214326. *HORDEUM* sp. Poaceae. Barley.

No. 13647. Market, Hansi, Punjab. Feb. 20, 1954. Sandy plain. Dry-farmed winter variety used as stock feed.

214327. *HORDEUM* sp. Barley.

No. 13690. Marauli Kalan, Ambala District, Punjab. Feb. 25, 1954. Sandy plain, mostly dry-farmed. Grown for cattle feed.

214328. *LINUM USITATISSIMUM* L. Linaceae. Flax.

No. 13691. Marauli Kalan, Ambala District, Punjab. Feb. 25, 1954. Sandy plain. Seeds used as winter feed for cattle, mixed with other cereals.

214329 to 214331. *PENNISETUM SPICATUM* (L.) Willd. Poaceae. Pearl millet.

214329. No. 13578. *Bajra*. Market, Dehra Dun. Feb. 13, 1954. Seeds used as food; foliage as coarse forage.

214330. No. 13609. Village between Dehra Dun and Saharanpur. Feb. 14, 1954. Used as human food.

214331. No. 13646. Market, Hansi, Punjab. Feb. 20, 1954. Sandy plain. Used as fodder.



## 214306 to 214354—Continued

214332 and 214333. PHASEOLUS ACONITIFOLIUS Jacq. Fabaceae.

Moth bean.

214332. No. 13585. *Moth.* Market, Dehra Dun. Feb. 13, 1954. Small table bean.

214333. No. 13677. Market, Ferozepur, Punjab. Feb. 23, 1954. Sandy plain.

214334 and 214335. PHASEOLUS AUREUS Roxb.

Mung bean.

214334. No. 13584. Market, Dehra Dun. Feb. 13, 1954. Small green table bean; used also in making sweet confections.

214335. No. 13674. Market, Malout, Punjab. Feb. 22, 1954. Dry-farmed, summer crop.

214336 to 214338. PHASEOLUS MUNGO L.

Urd.

214336. No. 13583. Market, Dehra Dun. Feb. 13, 1954.

214337. No. 13672. Market, Malout, Punjab. Feb. 22, 1954. Summer crop.

214338. No. 13673. Market, Malout, Punjab. Feb. 22, 1954. Summer crop; dry-farmed.

214339 to 214343. PHASEOLUS VULGARIS L.

Common bean.

214339. No. 13582. Market, Dehra Dun. Feb. 13, 1954. Seeds pink or reddish.

214340. No. 13589. Market, Dehra Dun. Feb. 13, 1954. Seeds white.

214341. No. 13591. Market, Dehra Dun. Feb. 13, 1954. Seeds long, red.

214342. No. 13649. Market, Hissar, Punjab. Feb. 20, 1954.

214343. No. 13732. Market, Dehra Dun. February 1954. Seeds unusually long.

214344. PISUM SATIVUM L. Fabaceae.

Pea.

No. 13709. Government farm, Sirsa, Punjab. February 1954. Sandy loam. A bush pea making dense growth through winter, used for cattle forage and as a vegetable.

214345. PSIDIUM GUAYAVA L. Myrtaceae.

Guava.

No. 13635. *Guava.* Market, Saharapur. Feb. 16, 1954. Large, round, yellow fruits.

214346. SORGHUM VULGARE Pers. Poaceae.

No. 13712. *Jowar No. 20.* Government seed farm, Sirsa, Punjab. February 1954. Sandy loam. Selected variety cultivated for fodder.

214347 to 214350. TRITICUM AESTIVUM L. Poaceae.

Common wheat.

214347. No. 13579. Market, Dehra Dun. Feb. 13, 1954. Winter wheat.

214348. No. 13580. Market, Dehra Dun. Feb. 13, 1954. Winter wheat.

214349. No. 13610. Village market between Dehra Dun and Saharapur. Feb. 14, 1954. Winter wheat grown on light sandy soil.

214350. No. 13665. *Gehen, Kanak.* Sirsa, Punjab. Feb. 22, 1954. Irrigated; spring type; winter grown.

214351. TRIGONELLA FOENUM-GRACUM L. Fabaceae.

Fenugreek.

No. 13586. *Methi.* Market, Dehra Dun. Feb. 13, 1954. Leaves and young pods used as a vegetable.

**214306 to 214354—Continued**

214352 to 214354. *VIGNA SINENSIS* (Torner) Savi. Fabaceae. Cowpea.

214352. No. 13590. Market, Dehra Dun. Feb. 13, 1954. Small black-eyed variety.

214353. No. 13679. Market, Ferozepur, Punjab. Feb. 23, 1954. White variety.

214354. No. 13680. Market, Ferozepur, Punjab. Feb. 23, 1954.

**214355 and 214356.**

From Japan. Seeds presented by Joe Elias, Philadelphia, Pa. Received Mar. 30, 1954.

214355. *COSMOS* sp. Asteraceae.

*Kosumosu.*

214356. *RHODODENDRON* sp. Ericaceae.

**214357 and 214358. VITIS VINIFERA L. Vitaceae. European grape.**

From Japan. Cuttings presented by the Yamanashi Agricultural Experiment Station, Yamanashi-mura, Yamanashi Prefecture. Received Mar. 30, 1954.

214357. *Kyogai.*

214358. *Kyoho.*

**214359 to 214364. PRUNUS ARMENIACA L. Amygdalaceae.**

**Apricot.**

From Greece. Scions presented by W. H. Alderman, Near East Foundation, Salonica. Received Mar. 30, 1954.

214359. No. 3.

214362. No. 1 B.

214360. No. 4.

214363. No. 1 C.

214361. No. 1 A.

214364. No. 2.

**214365 and 214366. CANNABIS SATIVA L. Moraceae.**

**Hemp.**

From Germany. Seeds presented by the Institut für Acker-und Pflanzenbau, Berlin-Dahlem. Received Mar. 31, 1954.

214365. English origin.

214366. German origin.

**214367 to 214370.**

From India. Collected by Mr. Rupchand, Mawkhlang, via Shillong, Assam. Received Mar. 31, 1954.

214367. *CITRUS* sp. Rutaceae.

Growing on the Khasi Tableland; altitude 6,000 feet. A large frost-tolerant tree; fruits the size of grapefruits; pleasantly acid. (Seeds.)

214368. *DAHLIA* sp. Asteraceae.

(Root.)

214369. *HEDYCHUM* sp. Zingiberaceae.

(Roots.)

214370. *HEDYCHUM* sp.

**214371 to 214375.**

From Germany. Tubers presented by the Max Planck Institut für Zuchtungs-forschung, Voldagsen über Elze, Hanover. Received Apr. 1, 1954.

214371. *SOLANUM ACAULE* Bitter. Solanaceae.

44.1016/10.

214372. *SOLANUM ANDIGENUM* Juz. & Buk.

44.1004/5.

214373 to 214375. *SOLANUM*.

(*S. andigenum* × *demissum*).

214373. 44.335/130.

214374. 44.335/140.

214375. 49.540/2.

**214376 to 214379.**

From India. Plants and cuttings collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 1, 1954.

214376. *FRAGARIA NILGERRENSIS* Schlecht. Rosaceae. **Strawberry.**

No. 13830. Korakhunda Estate, Nilgiri Hills. Mar. 17, 1954. Altitude 8,000 feet. Moist meadow bottomland with black clay soil. Forms dense colonies between grass clumps. Fruits whitish, sweet; eaten locally.

214377. *PIPER NIGRUM* L. Piperaceae. **Black pepper.**

No. 13848. Dodo Betta Fountain, near Ootacamund. Mar. 18, 1954. Altitude 7,800 feet. Rainfall 50 inches. Spikes 5 inches long, some well-filled with berries; scarcely pungent.

214378 and 214379. Korakhunda Estate, Nilgiri Hills. Mar. 17, 1954.

214378. (Undetermined.)

No. 13840. Forms a dense cover 15 inches high. Eaten at certain stages by cattle; used as green manure.

214379. (Undetermined.)

No. 13841. Used as green manure; perhaps a variety of the preceding (P.I. 214378).

**214380 to 214384.**

From France. Scions presented by Amie Lambertin, Pépinières Lambertin Nîmes, Gard. Received Apr. 2, 1954.

214380. *MORUS* sp. Moraceae.

Received as *M. platanifolia*; place of publication not found. A mulberry, with foliage resembling that of the plane tree, which comes from Turkey and Armenia, and is a very graceful and ornamental shade tree. It grows rapidly, and thrives even in salty places near the seaside.

214381 and 214382. *PRUNUS ARMENIACA* L. Amygdalaceae. **Apricot.**

214381. *Bergeron*. Fruits large, red, with firm orange-yellow flesh. The tree is hardy and bears heavy crops regularly.

214382. *Poizat*. Fruits large, globose, golden-yellow, of good flavor. The tree is hardy, bears large crops, and the fruit ships well.

214383. *PRUNUS AVIUM* L. **Sweet cherry.**

*Bigarreau Early Burlat*. Fruits large, highly colored with crisp red and white striped flesh; ripens in France the first week in May. Said to be the best variety grown in France.

214384. *PRUNUS PERSICA* (L.) Batsch. **Peach.**

*Lambertin No. 1*. Fruits reddish, with white juicy flesh, freestone, ripen at same time as *Hale's Early*. Tree a heavy bearer.



**214385 to 214388. COFFEA RACEMOSA Lour. Rubiaceae. Coffee.**

From Mozambique. Plants presented by E. A. Menninger, Stuart, Fla., and growing at the United States Plant Introduction Garden, Coconut Grove, Fla. Numbered Apr. 5, 1954.

214385. No. 1.

214387. No. 3.

214386. No. 2.

214388. No. 4.

**214389. PICRIS ECHIOIDES L. Asteraceae.**

From Italy. Seeds presented by Professor Maymone, Director, Livestock Experimental Station, Rome. Received Apr. 5, 1954.

**214390 to 214401. TRITICUM AESTIVUM L. Poaceae.****Common wheat.**

From Brazil. Seeds presented by N. A. Risch, Secção De Defesa Sanitaria Vegetal, Porto Alegere, Rio Grande Do Sul. Received Apr. 6, 1954.

214390. *Colonias*.214396. *Colotant 2107/50*.214391. *Colotana 262/51*.214397. *Colotana 2179/50*.214392. *Colotana 266/51*.214398. *Seberi*.214393. *Colotana 1083/50*.214399. *Trapeano*.214394. *Colotana 1085/50*.214400. *Trintani*.214395. *Colotana 1742/51*.214401. *Veranopolis*.**214402. DIOSCOREA sp. Dioscoreaceae.**

From Peru. Tuber collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 6, 1954.

No. 386. (No field note.)

**214403 and 214404. VACCINIUM OXYCOCCOS L. Vacciniaceae.****Cranberry.**

From Denmark. Cuttings presented by Inge Grocen, Statens Forsogsstation, Hornum. Received Apr. 6, 1954.

214403. Lot 1.

214404. Lot 2.

**214405 to 214447.**

From Peru. Collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 6, 1954.

**214405. DIOSCOREA sp. Dioscoreaceae.**

No. 208. *Sacha Papa*. West of Carpath Pass, 48 kms. east of Huanuco, Mar. 7, 1954. Altitude 8,200 feet. (Tubers.)

**214406. DIOSCOREA sp.**

No. 209. *Sacha Papa*. East of Carpath Pass in the Ceja Le Montana. Mar. 7, 1954. Altitude 8,700 feet. (Tubers.)

**214407. DIOSCOREA sp.**

No. 210. *Sacha Papa*. East of Carpath Pass on road from Huanuco to Tingo Maria. Mar. 27, 1954. Altitude 7,000 feet. (Tubers.)

**214408. DIOSCOREA sp.**

No. 264. Along Huallaga River, below Tingo Maria. Mar. 12, 1954. Altitude 2,000 feet. (Tubers.)



## 214405 to 214447—Continued

## 214409. DIOSCOREA sp.

No. 277. *Sacha Papa*. Along Huallaga River, below Tingo María. Mar. 13, 1954. (Tubers.)

## 214410. DIOSCOREA sp.

No. 303. At Cayumba bridge, 28 kms. south of Tingo María. Mar. 14, 1954. (Tubers.)

## 214411. DIOSCOREA sp.

No. 333. Between Puente Prado and Monzón River, west side of Huallaga River, Tingo María. Mar. 16, 1954. (Tubers.)

## 214412. DIOSCOREA sp.

No. 334. Between Puente Prado and Monzón river, west side of Huallaga River. Tingo María. Mar. 16, 1954. (Tubers.)

## 214413. DIOSCOREA sp.

No. 355. Road east of Tingo María, west of Carmen Alto. Mar. 18, 1954. Altitude 4,000 feet. Wiry stems; growing on a clay bank. (Tubers.)

## 214414 and 214415. IPOMOEA BATATAS (L.) Lam. Convolvulaceae.

Sweetpotato.

214414. No. 475. Market, Marucana. Mar. 24, 1954. White.

214415. No. 447. Market, Huanuco. Mar. 23, 1954. Red.

## 214416 to 214419. MANIHOT ESCULENTA Crantz. Euphorbiaceae. Cassava.

214416. No. 436. *Yuca Provinciana*. Experiment Station, Tingo María. Mar. 20, 1954. (Cuttings.)

214417. No. 437. *Yuca San Martin* #3. Experiment Station, Tingo María. Mar. 20, 1954. (Cuttings.)

214418. No. 438. *Yuca Blanca*. Experiment Station, Tingo María. Mar. 20, 1954. (Cuttings.)

214419. No. 439. *Yuca Morada-Blanca*. Experiment Station, Tingo María. Mar. 20, 1954. (Cuttings.)

## 214420. OXALIS TUBEROSA Molina. Oxalidaceae.

Oca.

No. 467. Market, La Oroya. Mar. 24, 1954. Yellow tubers with red spots and flushes.

## 214421 to 214443. SOLANUM TUBEROSUM L. Solanaceae.

Potato.

(Tubers.)

## 214421 to 214427. Market, Huanuco, Peru.

214421. No. 448. *Palta*.214425. No. 452. *Jucto*.214422. No. 449. *Amarilla*.214426. No. 453. *Manzana*.

214423. No. 450.

214427. No. 454. *Semita Blanca*.214424. No. 451. *Azul Juite*.

214428. No. 458. Cerro de Pasco. Tubers reddish.

214429. No. 459. Cerro de Pasco. Tubers blackish.

## 214430 to 214433. From La Oroya.

214430. No. 460. Tubers reddish.

214432. No. 462. Tubers dark purple.

214431. No. 461. Tubers reddish.

214433. No. 463. Tubers light reddish.

214434. No. 464. Market, La Oroya. Purple.

**214405 to 214447—Continued****214421 to 214443—Continued**

214435. No. 465. Market, La Oroya. Dark red.

214436. No. 466. Market, La Oroya. Light red.

214437 to 214443. Lima market.

214437. No. 499. Tubers long, white.

214441. No. 503. Tubers dimply, yellow.

214438. No. 500. Tubers long, red.

214442. No. 504. Tubers white.

214439. No. 501. Tubers blackish.

214443. No. 505. Tubers white.

214440. No. 502. Tubers red-dish.

214444. (Undetermined.)

No. 315. Cayumba, 28 km. from Tingo María on the road to Huanuco. Mar. 15, 1954. Lily like plant; flowers yellow; petals tipped with green. (Bulbs.)

214445. (Undetermined.)

No. 322. (No field note.) (Bulbs.)

214446. (Undetermined.)

No. 468. *Palio*. Market, La Oroya. Mar. 24, 1954. Small shrimp-like rhizomes, cooked with foods to give a yellow color.

214447. (Undetermined.)

No. 495. *Kion*. Market, Lima. Grown in a sea-level valley slightly inland, near Chanchamayo. Mar. 26, 1954. (Rhizomes.)

**214448 to 214452.**

From India. Collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 7, 1954.

214448. *FRAGARIA NILGERRENSIS* Schlecht. Rosaceae. **Strawberry.**

No. 13831. Korakhunda Estate, Nilgiri Hills. Mar. 17, 1954. Altitude 8,000 feet. Forms open colonies of scattered individuals on slopes and swales. Fruits pink; eaten locally. (Plants.)

214449. (Undetermined.) Poaceae.

No. 13779. Coonoor, Nilgiri Hills. Mar. 14, 1954. Altitude 6,000 feet. On deep loamy soil. A grass that forms a strong plushy deep sod over slopes; heavily browsed by cattle. (Crowns.)

214450. (Undetermined.) Poaceae.

No. 13780. Coonoor, Nilgiri Hills. Mar. 14, 1954. Altitude 6,000 feet. On deep loamy soil. Perennial grass with thick leafy body. (Crowns.)

214451. (Undetermined.) Poaceae.

No. 13847. Coonoor, Nilgiri Hills. Mar. 17, 1954. Large, rapidly growing perennial grass said to produce much cattle forage. (Crowns.)

214452. (Undetermined.) Poaceae.

Grass received with no notes. (Crowns.)

**214453 to 215319.**

From Nebraska. Seeds and clones planted at the Agricultural Experiment Station, University of Nebraska, Lincoln. Numbered Apr. 7, 1954.

Native and naturalized grasses and legumes collected in Nebraska during 1953 in cooperation with the Department of Agronomy, University of Nebraska. The 5 principal collectors were: C. McMillan, W. L. Tolstead, M. Brouse and T. H. Goodding of the University of Nebraska and L. C. Newell of the United States Department of Agriculture.

214453. *AEGILOPS CYLINDRICA* Host. Poaceae. Goatgrass.

No. 53569. North of Lamar, Colorado.

214454 to 214458. *AGROPYRON INTERMEDIUM* (Host) Beauv. Poaceae. Intermediate wheatgrass.

214454 to 214457. Cherry County.

214454. No. 53592. Outstanding, robust.

214455. No. 53593. Outstanding, robust.

214456. No. 53594. Tall.

214457. No. 53595. Selected for outstanding seed production.

214458. No. 53596. South of Rushville.

214459. *AGROPYRON REPENS* (L.) Beauv. Poaceae. Quackgrass.

No. 214459. Fifteen miles southwest of Gibbon. Excellent forage and seed.

214460 to 214468. *AGROPYRON SMITHII* Rydb. Poaceae. Western wheatgrass.

214460. No. 53583. One mile west of Orleans. Bright straw and good seed.

214461. No. 53584. Four miles west of Orleans.

214462. No. 53585. Two miles west of Oxford. Tall slender culms.

214463. No. 53586. Six miles west of Cambridge.

214464. No. 53587. Four miles west of Max.

214465. No. 53588. West of Benkelman.

214466. No. 53589. Four and one-half miles north of Kingsley Dam, Arthur County.

214467. No. 53590. Thirteen miles north of Kingsley Dam, Arthur County.

214468. No. 53591. One-half mile west of Lewellen.

214469 to 214480. *AGROPYRON TRACHYCAULUM* (Link) Malte. Poaceae. Slender wheatgrass.

214469. No. 53571. Two Rivers Nursery, Waterloo.

214470. No. 53572. Henry Wood Ranch, Chambers.

214471. No. 53573. South meadow of C. H. Reece Ranch, southwest of Valentine.

214472. No. 53574. Five miles southwest of Gibbon.

214473. No. 53575. Eight miles southwest of Gibbon.

214474. No. 53576. North of Fairgrounds, North Platte.

214475. No. 53577. North of Fairgrounds, North Platte.

214476. No. 53578. Ten miles northwest of North Platte.

214477. No. 53579. Southern slopes of Niobrara Valley, south of Gordon.

214478. No. 53580. Five miles west of Merna.

214479. No. 53581. Experimental Substation, North Platte.

214480. No. 53582. One mile west of Gothenberg.



**214453 to 215319—Continued**

214481 to 214561. *ANDROPOGON GERARDII* Vitm. Poaceae. Big bluestem.

214481. No. 53641. Near P. H. Young schoolhouse southwest of Valentine. Large inflorescences with purple glumes and greyish villous hairs in the inflorescence, reddish stems.

214482. No. 53642. Southwest of Valentine on C. H. Reece ranch. Purple stems and inflorescence, leafy, medium height.

214483. No. 53643. Southwest of Valentine on C. H. Reece ranch. Small and short with brown stems and inflorescences.

214484. No. 53644. Southwest of Valentine on C. H. Reece ranch. Light brown inflorescences.

214485. No. 53645. Two miles south of O'Neill. Five to 6 feet tall, leafy.

214486. No. 53646. Two miles south of O'Neill. Four feet tall, dark colored, good leaf growth.

214487. No. 53647. One mile south of Bassett. Five to 6 feet high. Rhizomes short, forming dense clumps; mostly reddish-colored, long narrow leaves.

214488. No. 53648. Six miles south of Ainsworth. Four to 5 feet high.

214489. No. 53649. One mile west of Lakes Refuge, Valentine. Gray hairs, purple glumes.

214490. No. 53650. Western Hackberry Lake, Lakes Refuge, Valentine. Six feet high, red colored leaves and stems.

214491. No. 53651. Five miles northeast of Arnold.

214492. No. 53652. Five miles northeast of Arnold.

214493. No. 53653. Five miles north of Merna. Red culms 2-3 feet high; slender leaves.

214494. No. 53654. West of Highways 81 and 56, near Monroe. Mass collection of seed including reddish and brown types with much variation.

214495. No. 53655. Three miles north of Spaulding.

214496. No. 53656. Five miles west of Cumminsville, Wheeler County.

214497. No. 53657. Nine miles east and 2 miles north of Chambers. Clums and inflorescences red.

214498. No. 53658. Nine miles east and 3 miles north of Chambers. Tall, reddish.

214499. No. 53659. Six miles southeast of Chambers.

214500 to 214504. Six miles south and 4 miles west of Chambers.

214500. No. 53660. Red stems and glumes; grayish hairs in the inflorescences.

214501. No. 53661. Reddish glumes and fine leaves; grayish hairs in the inflorescences.

214502. No. 53662. Red glumes.

214503. No. 53663. Brownish-green glumes and light-yellow leaves.

214504. No. 53664. Few villous hairs in the inflorescences.

214505. No. 53665. Eight miles west and 1 mile south of Chambers. Short reddish-brown type.

214506. No. 53666. West of Plainview along railroad right of way.

214507. No. 53667. One-half mile northwest of Foster.

214508. No. 53668. One mile southeast of Wisner. Leaf reddish tinge.



## 214453 to 215319—Continued

## 214481 to 214561—Continued

214509. No. 53669. One mile southeast of Wisner. Individual green clone. Four feet spread; reddish tinge to inflorescence and leaves.
214510. No. 53670. National Guard Grounds east of Ashland. Yellowish green; few hairs in the inflorescence.
214511. No. 53671. One mile north of Lewiston. From 6 to 7 feet high.
214512. No. 53672. Two miles north of Lewiston.
214513. No. 53673. Four miles south of Plattsmouth.
214514. No. 53674. Six miles east of Union.
214515. No. 53675. Nine miles north of Peru.
214516. No. 53676. Two miles south and 4 miles west of Peru.
214517. No. 53677. Two miles southeast of Auburn.
214518. No. 53678. Three miles east and 1 mile south of Verdun.
214519. No. 53679. Five miles south of Rulo.
214520. No. 53680. Five miles north and 3 miles east of Falls City.
214521. No. 53681. One mile east and 6 miles north of Humboldt.
214522. No. 53682. Three miles east of Tecumseh.
214523. No. 53683. Three miles south of Tecumseh.
214524. No. 53684. One mile north of Pawnee City.
214525. No. 53685. Five miles north of Tecumseh.
214526. No. 53686. Six miles west of Cook.
214527. No. 53687. Seven miles north of Lewisville.
214528. No. 53688. Two miles north and 2 miles east of Alma.
214529. No. 53689. Two miles east of Orleans.
214530. No. 53690. One mile west of Orleans.
214531. No. 53691. Two miles west of Orleans.
214532. No. 53692. Northwest of Orleans. Red leaves and stems at maturity. Leafy.
214533. No. 53693. Five miles northwest of Orleans.
214534. No. 53694. Two miles east and 2 miles north of Beaver City.
214535. No. 53695. One mile east of Cambridge.
214536. No. 53696. One mile west and 1 mile north of Cambridge.
- 214537 to 214541. Six miles west of Cambridge.
214537. No. 53697.
214538. No. 53698. Short, red clump.
214539. No. 53699. Short, stocky clone; coarse stems.
214540. No. 53700. Short, reddish tinge.
214541. No. 53701. Leafy; short dense.
214542. No. 53702. Nine miles west of McCook.
214543. No. 53703. Five and one-half miles northwest of Imperial. Characteristics of *A. hallii*.
214544. No. 53704. Five and one-half miles northwest of Imperial.
214545. No. 53705. Eight miles north of Kingsley Dam, Arthur County.

## 214453 to 215319—Continued

## 214481 to 214561—Continued

214546. No. 53706. One mile west of North Platte. Short, reddish.

214547. No. 53707. One mile west of Gothenberg.

214548. No. 53708. One mile south of Odessa.

214549 to 214554. Three miles west of Fremont.

214549. No. 53709. Late type; deep red inflorescences and stems.

214550. Reddish to brownish inflorescence.

214551. Reddish to purplish glumes.

214552. No. 53712. Erect stems; purplish inflorescence.

214553. No. 53713. Short, leafy; brownish glumes.

214554. No. 53714. Short, leafy; brownish inflorescences.

214555. No. 53715. Three miles west of Hooper.

214556. No. 53716. Three miles west of Hooper. Dark red stems and inflorescence.

214557. No. 53717. Four miles North and 1 mile west of Winslow. Reddish stems and inflorescences.

214558. No. 53718. Frontier County.

214559. No. 53719. Frontier County.

214560. No. 53957. Three miles north of Barada, Richardson County.

214561. No. 53958. Seward County.

214562 to 214640. *ANDROPOGON HALLII* Hack. Poaceae. Sand bluestem.

214562. No. 53720. Southwest of Valentine on Baker Ranch. White villous hairs in the inflorescence; grayish leaves.

214563. No. 53721. Southwest of Valentine on Maker Ranch. White villous hairs in the inflorescence.

214564. No. 53722. Southwest of Valentine on Baker Ranch. Reddish glumes, grayish villous hairs in the inflorescence.

214565. No. 53723. Southwest of Valentine on C. H. Reece Ranch.

214566. No. 53724. Seven miles west of Crookston.

214567. No. 53725. Ten miles west of Cody.

214568. No. 53726. Ten miles west of Cody.

214569. No. 53727. Five miles west of Crookston.

214570. No. 53728. Northeast of Eli. Golden inflorescence.

214571. No. 53729. Along highway 20, Fort Robinson. Golden inflorescence.

214572. No. 53730. Twenty-one miles north of Thedford. Tall type; golden villous hairs in the inflorescence; blue-green foliage.

214573. No. 53731. Twenty-one miles north of Thedford. Short type; golden villous hairs in the inflorescence.

214574. No. 53732. Twenty-one miles north of Thedford. Small.

214575. No. 53733. Sixteen miles south of Dunning. Spreading rhizomatous; intermediate type.

214576. No. 53734. Sixteen miles south of Dunning. Golden villous hairs in the inflorescence.

214577. No. 53735. Kilpatrick Ranch, Imperial, Chase County.

## 214453 to 215319—Continued

## 214562 to 214640—Continued

214578. No. 53736. E. M. Eldred Ranch, north of Lisco in Garden County.
214579. No. 53737. Dramer Ranch, Stapleton. Clone was characterized by the deep yellow color of the hairs around the glumes.
214580. No. 53738. Kramer Ranch, Stapleton. Yellow color of inflorescence hairs.
214581. No. 53739. Matures early; 3–4 feet high.
214582. No. 53740. Matures early; 2–3½ feet high.
214583. No. 53741. One mile east of Fort Robinson. Matures early.
214584. No. 53742. Niobrara valley south of Rushville. Matures early.
214585. No. 53743. Eight miles south of O'Neill.
214586. No. 53744. Eight miles south of O'Neill. Three feet high, gray colored hairs on inflorescence, long rhizome type, glaucous colored leaves.
214587. No. 53745. Seven miles west and 6 miles south of O'Neill. Long rhizomes; short leaves.
214588. No. 53746. Seven miles south of Bassett. Gray hairs in inflorescence.
214589. No. 53747. Eight miles south of Ainsworth. Yellow, gray-haired types, 2–3 feet high.
214590. No. 53748. One mile west of Valentine Lakes Refuge, Valentine. Two feet high, gray hairs on inflorescence, purple glumes.
214591. No. 53749. One mile west of highway southwest of Valentine. Gray hairs in inflorescence.
214592. No. 53750. One mile west of Valentine Lakes Refuge, Valentine. Intermediate type.
214593. No. 53751. One mile west of Valentine Lakes Refuge, Valentine. Purple glumes, glaucous leaves.
214594. No. 53752. Valentine Lakes Refuge, Valentine.
214595. No. 53753. West of Dewey Lake, Valentine.
214596. No. 53754. West of Dewey Lake, Valentine. Glumes purplish, no hairs.
214597. No. 53755. West of Dewey Lake, Valentine. Yellow hairs, glaucous leaves.
214598. No. 53756. Valentine Lakes Refuge, Valentine. White and yellow villous hairs.
214599. No. 53757. One mile south of North Loup.
214600. No. 53758. Twelve miles south of Thedford.
214601. No. 53759. Twelve miles south of Thedford, on sand dune.
214602. No. 53760. Twelve miles south of Thedford.
214603. No. 53761. Twelve miles south of Thedford, on sand dune. Six feet high.
214604. No. 53762. Twelve miles south of Thedford.
214605. No. 53763. Twelve miles south of Thedford, on sand dune.
214606. No. 53764. Twelve miles south of Thedford. Leafy.
214607. No. 53765. Along highway 92 east of St. Paul



## 214453 to 215319—Continued

## 214562 to 214640—Continued

214608. No. 53766. Nine miles east and 2 miles north of Chambers.  
214609. No. 53767. Nine miles east and 3 miles north of Chambers.  
214610. No. 53768. Six miles east and 1 mile north of Chambers. Yellowish hairs in the inflorescences.  
214611. No. 53769. Holt County line, Chambers. Gray-brown hairs in the inflorescence.  
214612. No. 53770. Six miles south and 4 miles west of Chambers. Gray hairs in the inflorescences.  
214613. No. 53771. Eight miles west and 1 mile south of Chambers.  
214614. No. 53772. Twelve miles west of Chambers.  
214615. No. 53773. Twelve miles west of Chambers, on sand dune. Fine stems, red glumes, white hairs in the inflorescence.  
214616. No. 53774. Twelve miles west of Chambers.  
214617. No. 53775. Twelve miles west of Chambers, on sand dune. White hairs in the inflorescence.  
214618. No. 53776. Twelve miles west of Chambers, on sand dune. Red glumes.  
214619. No. 53777. Twelve miles west of Chambers, on sand dune. White hairs in the inflorescences.  
214620. No. 53778. Twelve miles west of Chambers, on sand blow out. Yellow villous hairs in the inflorescence.  
214621. No. 53779. One and one-half miles south of Butte.  
214622. No. 53780. Niobrara valley south of Butte.  
214623. No. 53781. Niobrara valley south of Butte. Tall.  
214624. No. 53782. Two miles east of Highway 11 south of Niobrara river. Gray hairs in inflorescence.  
214625. No. 53783. South of Niobrara river in Holt County. White villous hairs in the inflorescences.  
214626. No. 53784. South of Niobrara river in Holt County. Yellow villous hairs.  
214627. No. 53785. Five miles north of Haigler.  
214628. No. 53786. Six miles north and 2 miles east of Haigler.  
214629. No. 53787. Fifteen miles northeast of Imperial. Yellow villous hairs in the inflorescence.  
214630. No. 53788. Four miles north of Kingsley Dam. No hairs in the inflorescence.  
214631. No. 53789. Four miles north of Kingsley Dam. White villous hairs in the inflorescence.  
214632. No. 53790. Four miles north of Kingsley Dam. Yellow villous hairs in the inflorescence.  
214633. No. 53791. Nine miles north of Kingsley Dam.  
214634. No. 53792. Ten miles north of Kingsley Dam, Arthur County. Yellow villous hairs in the inflorescence.  
214635. No. 53793. Ten miles north of Kingsley Dam, Arthur County. Gray hairs in the inflorescence.  
214636. No. 53794. Twelve miles north of Kingsley Dam, Arthur County. Yellow hairs in the inflorescence.



## 214453 to 215319—Continued

## 214562 to 214640—Continued

214637. No. 53795. Twelve miles north of Kingsley Dam. Yellow hairs in the inflorescence.

214638. No. 53796. Twelve miles north of Kingsley Dam. Inflorescence lacking villous hairs.

214639. No. 53797. Twelve miles north of Kingsley Dam. Inflorescence lacking villous hairs.

214640. No. 53798. Six miles west of Lisco. Leafy.

## 214641 to 214643. ANDROPOGON SCOPARIUS Michx. Poaceae. Little bluestem.

214641. No. 53638. Baker Ranch, Valentine. Reddish, vigorous, leafy.

214642. No. 53639. Three miles south of Thedford. Eighteen inches high.

214643. No. 53640. Two miles east of Highway 11, Holt County.

## 214644 to 214683. BOUTELOUA CURTIPENDULA (Michx.) Torr. Poaceae. Side-oats grama.

214644. No. 53598. Six miles north of Crawford.

214645. No. 53599. Two miles north of Belmont.

214646. No. 53600. Eight miles south of Crawford.

214647. No. 53601. Two miles west of Belmont.

214648. No. 53602. One mile east of Fort Robinson.

214649. No. 53603. Chadron State Park.

214650. No. 53604. Eight miles north of Chadron.

214651. No. 53605. South of Hay Springs.

214652. No. 53606. North side of Niobrara valley.

214653. No. 53607. South of Gordon.

214654. No. 53608. Meadville, in Niobrara valley. Bluish green leaves.

214655. No. 53609. Meadville, in Niobrara valley.

214656. No. 53610. North of Riverview.

214657. No. 53611. North of Riverview.

214658. No. 53612. Niobrara valley at Mariaville.

214659. No. 53613. One and one-half miles east of Napier.

214660. No. 53614. One mile northwest of Spencer.

214661. No. 53615. South of Spencer.

214662. No. 53616. Southwest of Redbird.

214663. No. 53617. Redbird, Holt County.

214664. No. 53618. Four miles east of Niobrara.

214665. No. 53619. One and one-half miles west of Santes. Short stout culms.

214666. No. 53620. Three miles south of Yankton.

214667. No. 53621. Slope at Gavins Point.

214668. No. 53622. One mile north of Maskell.

214669. No. 53623. Top of hill in Ponca State Park.

214670. No. 53624. Long Pine.

214671. No. 53625. East of Valentine.

## 214453 to 215319—Continued

## 214644 to 214683—Continued

214672. No. 53626. Two miles south of Schlager Creek of Niobrara Valley.
214673. No. 53627. Five miles northeast of Arnold.
214674. No. 53628. West of intersection of Highways 81 and 56 near Monroe.
214675. No. 53629. Two miles east of Spaulding.
214676. No. 53630. Three miles north of Spaulding.
214677. No. 53631. One mile southeast of Wisner.
214678. No. 53632. Flat Top Mountain southeast of Franklin.
214679. No. 53633. Two miles north and 2 miles east of Alma.
214680. No. 53634. Four miles west of Orleans.
214681. No. 53635. Two miles east and 2 miles north of Beaver City.
214682. No. 53636. At Medicine Creek Dam north of Cambridge.
214683. No. 53637. Frontier County.
- 214684 and 214685. *BOUPELOU GRACILIS* (H.B.K.) Lag. Blue grama.
214684. No. 53539. Two miles west of Sidney.
214685. No. 53540. Foote Farm, Sidney.
214686. *BRUMUS INERMIS* Lyes. Poaceae. Smooth brome grass.
- No. 53570. Baker Ranch, Sidney.
- 214687 to 214689. *BUCHLOE DACTYLOIDES* (Nutt.) Engelm. Poaceae. Buffalo grass.
214687. No. 53536. Two miles north of Lincoln.
214688. No. 53537. Two miles northeast of Lincoln.
214689. No. 53538. One mile north and ½ mile west of Westerville.
- 214690 to 214692. *CALAMOVILFA LONGIFOLIA* (Hook.) Scribn. Poaceae. Prairie sandreed.
214690. No. 53566. Twelve miles west of Chamber.
214691. No. 53567. One mile north of Callaway. Tall; open panicles.
214692. No. 53568. One mile northeast of Callaway. Tall; compact panicles.
214693. *DACTYLIS GLOMERATA* L. Poaceae. Orchard grass.
- No. 53535. Cliff Jackson Farm, Tecumseh.
- 214694 and 214695. *ELYMUS CANADENSIS* L. Poaceae. Canada wildrye.
214694. No. 53547. Three miles east of Belmont.
214695. No. 53548. South of Spencer.
- 214696 and 214697. *ELYMUS VIRGINICUS* L. Virginia wildrye.
214696. No. 53549. East of Clearwater. Leafy.
214697. No. 53550. One mile south and 1 mile east of Rassmussen Farm, Clearwater.
- 214698 to 214701. *ERAGROSTIS PILIFERA* Scheele. Poaceae. Lovegrass.
- All collected west of Fremont.
214698. No. 53937. Long spikelets; numerous florets.

**214453 to 215319—Continued****214698 to 214701—Continued**

214699. No. 53938. Tall; long narrow spikelets.

214700. No. 53939. Tall; leafy; long, numerous-flowered spikelets.

214701. No. 53942. Tall; elongated panicles.

**214702 to 214720. ERAGROSTIS TRICHODES (Nutt.) Wood. Lovegrass.**

214702. No. 53934. Baker Ranch, Sidney.

214703. No. 53935. Reece Ranch, southwest of Valentine.

214704. No. 53936. West of Fremont. Red. Long spikelets.

214705. No. 53940. Halsey. Short.

214706. No. 53941. Two miles west of Fremont. Leafy.

214707. No. 53943. Niobrara valley, Meadville. Tall.

214708. No. 53944. Valentine. Tall, sturdy.

214709. No. 53945. West of Pelican Lake, Valentine.

214710. No. 53946. South of Thedford.

214711. No. 53947. South of Thedford.

214712. No. 53948. One mile east of Loup City.

214713. No. 53949. Sixteen miles north of Spaulding.

214714. No. 53950. Eight miles west and 1 mile south of Chambers.

214715. No. 53951. Seven miles south of Niobrara river, Holt County.

214716. No. 53952. North of Neligh.

214717. No. 53953. One mile northeast of Lewiston. Three feet tall.

214718. No. 53954. Eight miles north of Kingsley Dam, Arthur County.

214719. No. 53955. Eight miles north of Kingsley Dam, Arthur County.

214720. No. 53956. Twelve miles north of North Platte.

**214721. MELICA MUTICA Walt. Poaceae. Two-flowered melic.**

No. 53534.

**214722 to 214792. PANICUM VIRGATUM L. Poaceae. Switch grass.**

214722. No. 53862. Five miles east and 1 mile south of Chambers.

214723. No. 53864. Southwest of Valentine, Cherry County. Leafy.

214724. No. 53865. Southwest of Valentine. Leafy.

214725. No. 53866. Reece Ranch, Valentine. Leafy.

214726. No. 53867. Reece Ranch, Valentine. Leafy. Purple elongate panicles.

214727. No. 53868. Reece Ranch, Valentine. Leafy.

214728. No. 53869. Ten miles west of Cody.

214729. No. 53870. One mile northwest of Bassett. Leafy.

**214730 to 214733. From lakes west of Fremont.**

214730. No. 53871. Green slightly tinged with red.

214731. No. 53872. Tall with good panicles.

214732. No. 53873. Leafy, good seed quality.

214733. No. 53874. Somewhat coarse; late maturing.

214734. No. 53875. West of Fremont. Leafy.



## 214453 to 215319—Continued

## 214722 to 214792—Continued

214735. No. 53876. Three miles west of Hooper. Excellent panicle.  
214736. Eldred Ranch, Garden County.  
214737. No. 53878. Eldred Ranch, Garden County.  
214738. No. 53879. Section 36 in Frontier County.  
214739. No. 53880. Section 36 in Frontier County.  
214740. No. 53881. Eight miles south of O'Neill.  
214741. No. 53882. Seven miles west and 5 miles south of O'Neill.  
214742. No. 53883. One mile south of Bassett. Four feet high, leafy.  
214743. No. 53884. South of Ainsworth. Four feet high.  
214744. No. 53885. East of Lakes Refuge, Valentine. Three to 4 feet high.  
214745. No. 53886. One mile west of Valentine Lakes Refuge Headquarters, Valentine.  
214746. No. 53887. East end of Valentine Lakes Refuge, Valentine. Tall.  
214747. No. 53888. West of Stapleton.  
214748. No. 53889. Five miles west of Merna.  
214749. No. 53890. East of Clark.  
214750. No. 53891. Two miles west of Columbus. Tall.  
214751. No. 53892. Three miles north of Spaulding.  
214752. No. 53893. Nine miles east and 2 miles north of Chambers.  
214753. No. 53894. Eight miles west and 1 mile south of Chambers.  
214754. No. 53895. Along Elkhorn River east of Clearwater.  
214755. No. 53896. West of Plainview.  
214756. No. 53897. One mile northeast of Lewiston. Tall.  
214757. No. 53898. Three miles north of Lewiston.  
214758. No. 53899. Five miles east of Union.  
214759. No. 53900. South of Nebraska City.  
214760. No. 53901. South of Nebraska City along road in Missouri river bottoms.  
214761. No. 53902. Four miles west and 2 miles south of Peru.  
214762. No. 53903. Three miles north of Table Rock.  
214763. No. 53904. Eight miles north of Table Rock.  
214764. No. 53905. Three miles south of Tecumseh.  
214765. No. 53906. One mile north of Pawnee City.  
214766. No. 53907. Five miles north of Tecumseh.  
214767. No. 53908. Six miles west of Cook.  
214768. No. 53909. South of Carlton. Coarse stems.  
214769. No. 53910. South of Republican City.  
214770. No. 53911. Two miles north and 2 miles east of Alma.  
214771. No. 53912. One mile west of Orleans.  
214772. No. 53913. Four miles west of Orleans.



**214453 to 215319—Continued****214722 to 214792—Continued**

214773. No. 53914. Five miles northwest of Orleans.
214774. No. 53915. One mile east of Oxford. Five to 6 feet tall, robust.
214775. No. 53916. One mile east of Cambridge.
214776. No. 53917. North of Cambridge.
214777. No. 53918. Six miles west of Cambridge.
214778. No. 53919. Six miles west of Cambridge. Four feet in diameter. Reddish tinge at maturity.
214779. No. 53920. Six miles west of Cambridge.
214780. No. 53921. Nine miles west of McCook.
214781. No. 53922. One and one-half miles north of Benkleman.
214782. No. 53923. Along railroad at Parks.
214783. No. 53924. One-half mile north of Haigler.
214784. No. 53925. Five miles north of Haigler.
214785. No. 53926. Five and one-half miles northeast of Imperial.
214786. No. 53927. Four and one-half miles north of Kingsley Dam, Arthur County.
214787. No. 53928. Five miles north of Kingsley Dam, Arthur County. Reddish tinge to leaves at maturity.
214788. No. 53929. Eight miles north of Kingsley Dam, Arthur County.
214789. No. 53930. One-half mile west of Lewellen.
214790. No. 53931. One mile west of North Platte.
214791. No. 53932. One mile west of Gothenberg.
214792. No. 53933. One-half mile west of Odessa.
214793. *POA COMPRESSA* L. Poaceae. **Canada bluegrass.**  
No. 53533. Sixteen miles south and 4 miles west of Atkinson.
- 214794 to 214796. *REDFIELDIA FLEXUOSA* (Thurb.) Vasey. Poaceae. **Blowoutgrass**
214794. No. 53554. Five miles west of Cumminsville, Wheeler County.
214795. No. 53555. Twelve miles west of Chambers, Holt County.
214796. No. 53556. Fifteen miles northeast of Imperial.
- 214797 to 214868. *SORGHASTRUM NUTANS* (L.) Nash. Poaceae. **Indian grass.**
214797. No. 53799. Ten miles west of Cody. Early maturing.
214798. No. 53800. Sixteen miles south of Dunning.
214799. No. 53801. Three miles west of Fremont.
214800. No. 53802. Hoegemeyer Farm, Hooper.
214801. No. 53803. Eldred Ranch. Garden County—Section 36.
214802. No. 53804. Section 32, Frontier County.
214803. No. 53805. Section 33, Frontier County.
214804. No. 53806. Eight miles south of O'Neill. Five feet high, long leaved.
214805. No. 53807. Four miles west and 2 miles south of O'Neill. Two to three feet high.

**214453 to 215319—Continued****214797 to 214868—Continued**

214806. No. 53808. One mile south of Bassett.  
214807. No. 53809. Five miles south of Ainsworth. Two to 3 feet high.  
214808. No. 53810. East of Valentine Lakes Refuge, Valentine.  
214809. No. 53811. West end of Hackberry Lake, Valentine.  
214810. No. 53812. West of intersection Highways 81 and 56, Monroe.  
214811. No. 53813. Nine miles east and 2 miles north of Chambers.  
214812. No. 53814. Nine miles east and 3 miles north of Chambers.  
214813. No. 53815. Six miles southeast of Chambers.  
214814. No. 53816. Six miles south and 4 miles west of Chambers, Holt County.  
214815. No. 53817. Five miles south and 4 miles west of Chambers.  
214816. No. 53818. Three miles east of Chambers.  
214817. No. 53819. Twelve miles west of Chambers, Holt County.  
214818. No. 53820. Twenty miles northeast of Atkinson.  
214819. No. 53821. West of Plainview.  
214820. No. 53822. One mile southeast of Wisner.  
214821. No. 53823. Nebraska National Guard Grounds east of Ashland.  
214822. No. 53824. Five miles north of Lewiston.  
214823. No. 53825. Four miles north of Lewiston.  
214824. No. 53826. Eight miles south of Plattsmouth.  
214825. No. 53827. Two miles east of Union.  
214826. No. 53828. South of Nebraska City.  
214827. No. 53829. Seven miles north of Peru.  
214828. No. 53830. Four miles east and 1 mile south of Peru.  
214829. No. 53831. Two miles southeast of Auburn.  
214830. No. 53832. Two miles east and one mile south of Stella.  
214831. No. 53833. Three miles east and 3 miles south of Verdon.  
214832. No. 53834. Five miles south of Rulo.  
214833. No. 53835. Six miles north and 3 miles east of Falls City.  
214834. No. 53836. Eight miles north and 1 mile east of Humboldt.  
214835. No. 53837. One mile east and 1 mile north of Humboldt.  
214836. No. 53838. Three miles north of Table Rock.  
214837. No. 53839. Four miles northwest of Pawnee City.  
214838. No. 53840. Three miles south of Tecumseh.  
214839. No. 53841. Eight miles west and 1 mile north of Pawnee City.  
214840. No. 53842. One mile east and 1 mile north of Mayberry.  
214841. No. 53843. One mile east of St. Mary.  
214842. No. 53844. Six miles west of Cook.  
214843. No. 53845. Two miles south and 4 miles west of Nebraska City.  
214844. No. 53846. Two miles west of Dunbar.  
214845. No. 53847. Three miles west and 4 miles north of Dunbar.

**214453 to 215319—Continued****214797 to 214868—Continued**

- 214846. No. 53848. Seven miles north of Lewisville.
- 214847. No. 53849. Roadside south of Carlton. Coarse tall culms.
- 214848. No. 53850. Southeast of Franklin.
- 214849. No. 53851. Outskirts of Republican City.
- 214850. No. 53852. Five miles west of Orleans.
- 214851. No. 53853. Six miles west of Cambridge.
- 214852. No. 53854. Nine miles west of McCook.
- 214853. No. 53855. Along railroad at Parks.
- 214854. No. 53856. One-half north of Haigler.
- 214855. No. 53857. Five miles north of Haigler.
- 214856. No. 53858. Five and one-half miles northeast of Imperial.
- 214857. No. 53859. Eight miles north of Kingsley Dam, Arthur County.
- 214858. No. 53860. Three miles west of Lewellen.
- 214859. No. 53861. One mile west of North Platte.
- 214860. No. 53959. Section 12, Seward County.
- 214861. No. 53960. Section 21, Seward County.
- 214862. No. 53961. Section 9, Seward County.
- 214863. No. 53962. Section 10, Seward County.
- 214864. No. 53963. Section 20, Seward County.
- 214865. No. 53964. Section 11, Seward County.
- 214866. No. 53965. Section 9, Seward County.
- 214867. No. 53966. Three miles north of Barada, Richardson County.
- 214868. No. 53967. Richardson County in Falls City area.

214869 to 214871. *SORGHUM HALEPENSE* (L.) Pers. Poaceae. Johnson grass.

- 214869. No. 53563. Four miles north of Lewiston.
- 214870. No. 53564. Two miles west and 2 miles north of Dunbar.
- 214871. No. 53565. Two miles east of Red Cloud.

214872. *SPARTINA GRACILIS* Trin. Poaceae. Alkali cordgrass.

- No. 53553. Shore of Baker Lake, southwest of Valentine.

214873 to 214875. *SPOROBOLUS CRYPTANDRUS* (Torr.) A. Gray. Poaceae.

- 214873. No. 53542. North of Crawford.
- 214874. No. 53543. Two miles east of Harrison.
- 214875. No. 53544. South of Hay Springs.

214876. *SPOROBOLUS HETEROLEPIS* A. Gray.

- No. 53551. South of O'Neill.

214877. *STIPA COMATA* Trin. & Rupr. Poaceae.

- No. 53541. Four miles north of Crawford.

214878 and 214879. *STIPA VIRIDULA* Trin.

- 214878. No. 53545. Three miles east of Belmont. Tall.
- 214879. No. 53546. Chadron State Park.



**214453 to 215319—Continued**

- 214880 to 214885. *TRIDENS FLAVUS* (L.) Hitchc. Poaceae. **Purpletop.**  
 214880. No. 53557. East of Ashland on Nebraska National Guard Grounds.  
 214881. No. 53558. Four miles north of Lewiston. Tall.  
 214882. No. 53559. Nine miles north of Peru.  
 214883. No. 53560. Four miles west of Falls City.  
 214884. No. 53561. One mile east and 1 mile north of Humboldt.  
 214885. No. 53562. Two miles northwest of Pawnee City.
214886. *ZIZANIA AQUATICA* L. Poaceae. **Wild rice.**  
 No. 53552. North of Four Corners Highways in northern Wheeler County.
- 214887 to 214921. *ANDROPOGON GERARDII* Vitman. Poaceae. **Big bluestem.**  
 214887. No. 53142. Eight miles east of Chadron State Park.  
 214888. No. 53143. Nine miles south of South Platte River. Long green leaves.  
 214889. No. 53144. Nine miles south of South Platte River. Long green leaves.  
 214890. No. 53145. Two miles west of North Platte. Flowering clone. Rhizomatous.  
 214891. No. 53146. Two miles west of North Platte. Tall green leaves.  
 214892. No. 53147. Nine miles east of Benkelman.  
 214893. No. 53148. Nine miles east of Benkelman. Rhizomatous, short leaves.  
 214894. No. 53149. Fourteen miles south of McCook. Long yellowish-green leaves.  
 214895. No. 53150. Southeast of Franklin. Yellowish-green leaves, reddish tipped.  
 214896. No. 53151. Six miles north of St. Paul.  
 214897. No. 53152. Eight miles north of O'Neill.  
 214898. No. 53153. By Niobrara River, north of O'Neill.  
 214899. No. 53154. Ten miles south of Niobrara.  
 214900. No. 53155. Ten miles south of Niobrara.  
 214901. No. 53156. Ponca State Park.  
 214902. No. 53157. One mile southeast of Wisner. Yellowish-green short leaves.  
 214903. No. 53158. Five miles south of Tecumseh.  
 214904. No. 53159. Nine miles south of Tecumseh.  
 214905. No. 53160. Ten miles southeast of Pawnee City.  
 214906. No. 53161. Two miles east of Table Rock.  
 214907. No. 53162. Ten miles north of Falls City.  
 214908. No. 53163. Ten miles north of Falls City.  
 214909. No. 53164. Five miles northwest of Lincoln. Spotting on yellowish-green leaves.  
 214910. No. 53165. Five miles northwest of Lincoln.  
 214911. No. 53166. Five miles northwest of Lincoln. Bluish-green leaves.



**214453 to 215319—Continued****214887 to 214921—Continued**

214912. No. 53342. Two miles south of O'Neill. Five to 6 feet tall, leafy, grows thickly.
214913. No. 53391. Two miles south and 2 miles west of O'Neill. Four feet high, thick growth.
214914. No. 53355. Valentine Lakes Refuge, Valentine. Purple glumes; long, slender green leaves.
214915. No. 53356. One mile west of Valentine Lakes Refuge Headquarters, Valentine. Long, slender green leaves; purple glumes.
214916. No. 53357. Five miles northeast of Arnold. Culms short.
214917. No. 53358. Two miles west of Columbus. Robust; red inflorescence.
214918. No. 53359. Nine miles east and 2 miles north of Chambers. Red culms and inflorescences.
214919. No. 53360. One mile southeast of Wisner. Reddish tinge to inflorescence and leaves.
214920. No. 53361. Five miles west of Orleans. Short, dense, leafy, leaves red at maturity.
214921. No. 53389. Sixteen miles south of Dunning.

**214922 to 214982. ANDROPOGON HALLII Hack. Poaceae. Sand bluestem.**

214922. No. 53167. One mile east of bridge between North Platte and Ogallala. Grayish green, highly rhizomatous, early maturing.
214923. No. 53168. One mile east of bridge between North Platte and Ogallala. Yellowish green, highly rhizomatous.
214924. No. 53169. One mile north on road leading from Lodgepole to Sidney. Rhizomatous. Gray-green leaves.
214925. No. 43170. Thirteen miles north of Harrisburg. Highly rhizomatous. Grayish-green leaves.
214926. No. 53171. Thirteen miles north of Harrisburg. Highly rhizomatous. Grayish-green leaves.
214927. No. 53172. Ten miles south of Gering. Highly rhizomatous; grayish-green leaves.
214928. No. 53173. Nine miles north of Mitchell.
214929. No. 53174. Two miles east of Fort Robinson. Highly rhizomatous.
214930. No. 53175. Two miles east of Fort Robinson. Highly rhizomatous. Six to ten inches high.
214931. No. 53176. One mile east of Fort Robinson. Slightly rhizomatous; extremely villous.
214932. No. 53177. One mile east of Fort Robinson. Slightly rhizomatous; extremely villous.
214933. No. 53178. Eighteen miles east of Gorden. Extremely rhizomatous.
214934. No. 53179. Valentine Wild Life Refuge, Valentine. Grayish-green leaves.
214935. No. 53180. Valentine Wild Life Refuge, Valentine.
214936. No. 53181. Fourteen miles southeast of Springview. Highly rhizomatous.

## 214453 to 215319—Continued

## 214922 to 214982—Continued

214937. No. 53182. Thirty-two miles south of Bassett. Low, leafy, yellowish green leaves.
214938. No. 53183. Thirty-two miles south of Bassett. Tall. Grayish green flower.
214939. No. 53184. Five miles north of North Platte. Highly rhizomatous.
214940. No. 53185. Two miles west of Stapleton. Yellowish green long leaves.
214941. No. 53186. Two miles west of Stapleton. Grayish green leafy clone.
214942. No. 53187. Twenty miles north of Highway 2, two miles east of Thedford.
214943. No. 53188. East of Halsey National Forest. Highly rhizomatous. Long yellow-green leaves.
214944. No. 53189. East of Halsey National Forest. Highly rhizomatous. Gray-green leaves.
214945. No. 53190. Five miles southeast of Hyannis on route to Arthur. Highly rhizomatous. Yellowish green leaves.
214946. No. 53191. Thirteen miles north of Benkelman. Highly rhizomatous. Bluish gray green leaves.
214947. No. 53192. Thirty-four miles north of St. Paul. Yellowish green leaves.
214948. No. 53332. South of regulating reservoir, North Platte. Long leaved.
214949. No. 53334. Seven miles north of Stapleton. Golden villous hairs in the inflorescence.
214950. No. 53336. Reece Ranch, southwest of Valentine. Late Maturing of *A. gerardi*  $\times$  *hallii*. Purple stems and inflorescences with white villous hairs.
214951. No. 53345. Eight miles south of O'Neill. Short rhizome.
214952. No. 53346. Eight miles south of O'Neill. Three feet high, gray colored hairs on inflorescence. Long rhizome type, glaucous colored leaves.
214953. No. 53347. One mile west of Valentine Lakes Refuge Headquarters, Valentine. Long slender leaves.
214954. No. 53392. Seven miles south of Bassett. Grayish hairs in the inflorescence.
214955. No. 53362. One mile west of Valentine Lakes Refuge Headquarters, Valentine.
214956. No. 53363. One mile west of Valentine Lakes Refuge Headquarters, Valentine.
214957. No. 53364. Valentine Lakes Refuge, Valentine.
214958. No. 53365. West of Dewey Lake, Valentine. Glumes purplish.
214959. No. 53366. West of Dewey Lake, Valentine. Yellow haired type.
214960. No. 53367. West of Dewey Lake, Valentine. Yellow hairs, glaucous leaves.

## 214453 to 215319—Continued

## 214922 to 214982—Continued

214961 to 214965. Twelve miles south of Thedford.

214961. No. 53368. Golden villous hairs.

214962. No. 53369. Gray-white hairs.

214963. No. 53370. Gray hairs; glaucous green leaves; plant 6 feet high.

214964. No. 53371. Tall, white hairs.

214965. No. 53372. Golden hairs; leafy gray-green leaves.

214966. No. 53373. Nine miles east and 3 miles north of Chambers.

214967 to 214971. Two miles east of Highway 11 south of Niobrara River, Holt County.

214967. No. 53374. Yellowish hairs in inflorescences and greenish glumes.

214968. No. 53375. Yellowish hairs in inflorescences and greenish glumes.

214969. No. 53376. Small. White villous hairs in the inflorescence.

214970. No. 53377. Yellow villous hairs in inflorescences.

214971. No. 53378. Yellow villous hairs in the inflorescence and greenish glumes.

214972. No. 53379. Four miles north of Kingsley Dam.

214973. No. 53380. Four miles north of Kingsley Dam.

214974 to 214977. Twelve miles north of Kingsley Dam, Arthur County.

214974. No. 53381.

214975. No. 53382. Short yellow hairs in the inflorescence.

214976. No. 53383. Yellow hairs in the inflorescence.

214977. No. 53384. Unusual type of inflorescence lacking villous hairs.

214978 to 214981. Twenty miles north of Thedford.

214978. No. 53385. Tall; golden villous hairs in inflorescence, blue-green foliage.

214979. No. 53386. White villous hairs in the inflorescence.

214980. No. 53387. Golden villous hairs in the inflorescence.

214981. No. 53388. Small; white villous hairs.

214982. No. 53390. Sixteen miles south of Dunning. Spreading, rhizomatous.

214983 to 215031. *ANDROPOGON SCOPARIUS* Michx.

214983. No. 53193. Southeast of Pine Bluffs, Wyo.

214984. No. 53194. Southeast of Pine Bluffs, Wyo.

214985. No. 53195. Four miles northwest of Flowerfield.

214986. No. 53196. Five miles west of Harrisburg.

214987. No. 53197. Five miles west of Harrisburg. Low rhizomatous, yellow-green leaves.

214988. No. 53198. Ten miles south of Gering in Wildcat State Park.

214989. No. 53199. Six miles north of Harrison.

214990. No. 53200. Twenty miles northeast of Harrison.



## 214453 to 215319—Continued

## 214983 to 215031—Continued

214991. No. 53201. Two miles east of Fort Robinson.  
214992. No. 53202. Two miles east of Fort Robinson.  
214993. No. 53203. One mile east of Fort Robinson.  
214994. No. 53204. Eight miles east of Chadron State Park.  
214995. No. 53205. Seventeen miles east of Gordon.  
214996. No. 53206. Seventeen miles east of Gordon.  
214997. No. 53207. East of Wild Life Refuge, Valentine.  
214998. No. 53208. Twenty-two miles south of Bassett.  
214999. No. 53209. Five miles north of North Platte. Grayish green clone.  
215000. No. 53210. Five miles north of North Platte. Greenish clone.  
215001. No. 53211. Three miles south of South Platte River. Broad short leaf.  
215002. No. 53212. Two miles west of North Platte. Vigorous clone, culms  $2\frac{1}{2}$  feet high.  
215003. No. 53213. Fourteen miles south of Thedford. Flowering culms 3 feet high.  
215004. No. 53214. Twenty miles north of Highway 2, two miles east of Thedford.  
215005. No. 53215. East of Halsey National Forest.  
215006. No. 53216. Five miles southeast of Hyannis.  
215007. No. 53217. North of Ogallala.  
215008. No. 53218. Seventeen miles south of Ogallala. Vigorous green clone.  
215009. No. 53219. Nine miles north of Imperial.  
215010. No. 53220. Sixteen miles north of Benkelman.  
215011. No. 53221. Fourteen miles south of McCook.  
215012. No. 53222. Southeast of Franklin.  
215013. No. 53223. Six miles north of St. Paul.  
215014. No. 53224. Thirty-seven miles north of St. Paul.  
215015. No. 53225. Eight miles north of O'Neill.  
215016. No. 53226. North of O'Neill.  
215017. No. 53227. Ten miles south of Niobrara.  
215018. No. 53228. Ponca State Park.  
215019. No. 53229. Eleven miles southwest of Ponca.  
215020. No. 53230. One mile southeast of Wisner.  
215021. No. 53231. Five miles south of Tecumseh.  
215022. No. 53232. Five miles south of Tecumseh.  
215023. No. 53233. Five miles south of Tecumseh.  
215024. No. 53234. Nine miles south of Tecumseh.  
215025. No. 53235. Ten miles southeast of Pawnee City.  
215026. No. 53236. Ten miles southeast of Pawnee City.



## 214453 to 215319—Continued

## 214983 to 215031—Continued

215027. No. 53237. Ten miles southeast of Pawnee City.

215028. No. 53238. Two miles east of Table Rock.

215029. No. 53239. Two miles east of Table Rock.

215030. No. 53240. Ten miles north of Falls City.

215031. No. 53241. Ten miles north of Falls City.

215032 to 215064. *BOUTELOUA CURTIPENDULA* (Michx.) Torr. Poaceae.  
Side-oats grama.

215032 to 215035. Three miles east of Potter.

215032. No. 53242.

215034. No. 53244.

215033. No. 53343.

215035. No. 53245. Vigorous clone.

215036. No. 53246. Three miles southeast of Pine Bluffs, Wyo.

215037. No. 53247. Three miles southeast of Pine Bluffs, Wyo.

215038. No. 53248. Four miles northwest of Flowerfield.

215039. No. 53249. Five miles west of Harrisburg. Clone with reddish nodes and flowering culms.

215040. No. 53250. Ten miles south of Gering in Wildcat State Park.

215041. No. 53251. Twenty miles northeast of Harrison.

215042. No. 53252. Road from Ardmore to Crawford.

215043. No. 53253. One mile east of Fort Robinson.

215044. No. 53254. One mile east of Fort Robinson.

215045. No. 53255. Eight miles north of Chadron.

215246. No. 53256. East of Wild Life Refuge, Valentine.

215047. No. 53257. Three miles south of South Platte River.

215048. No. 53258. North of Ogallala.

215049. No. 53259. Nine miles north of Imperial.

215050. Sixteen miles north of Benkelman.

215051. No. 53261. Nine miles east of Benkelman.

215052. No. 53262. Fourteen miles south of McCook. Vigorous clones.

215053. No. 53263. Southeast of Franklin.

215054. No. 53264. Six miles north of St. Paul.

215055. No. 53265. Eight miles north of O'Neill.

215056. No. 53266. North of O'Neill.

215057. No. 53267. Ten miles south of Niobrara.

215058. No. 53268. One mile southeast of Wisner.

215059. Nine miles south of Tecumseh.

215060. No. 53270. Nine miles south of Tecumseh. Vigorous clones.

215061. No. 53271. Ten miles southeast of Pawnee City.

215062. No. 53272. Ten miles southeast of Pawnee City.

215063. No. 53273. Two miles east of Table Rock.

215064. No. 53349. Four miles west of Orleans.

## 214453 to 215319—Continued

215065 to 215097. *BOUTELOUA GRACILIS* (H.B.K.) Lag.

215065. No. 53274. Three miles east of Potter.  
215066. No. 53275. Three miles southeast of Pine Bluffs.  
215067. No. 53276. Three miles southeast of Pine Bluffs.  
215068. No. 53277. Three miles southeast of Pine Bluffs. Robust clone.  
215069. No. 53278. Four miles northwest of Flowerfield.  
215070. No. 53279. Four miles north of Flowerfield.  
215071. No. 53280. Five miles west of Harrisburg. Highly rhizomatous.  
215072. No. 53281. Ten miles south of Gering.  
215073. No. 53282. Twenty miles northeast of Harrison  
215074. No. 53283. Road from Admore to Crawford. Long-leaved clone.  
215075. No. 53284. Two miles east of Fort Robinson.  
215076. No. 53285. Eight miles north of Chadron.  
215077. No. 53286. East of Wild Life Refuge, Valentine.  
215078. No. 53287. Five miles north of North Platte.  
215079. No. 53288. Two miles west of North Platte.  
215080. No. 53289. Twenty miles north of Highway 2 and two miles east of Thedford. Vigorous clones.  
215081. No. 53290. East of Halsey National Forest.  
215082. No. 53291. Five miles southeast of Hyannis on route to Arthur.  
215083. No. 53292. North of Ogallala.  
215084. No. 53293. Seventeen miles south of Ogallala.  
215085. No. 53294. Nine miles north of Imperial.  
215086. No. 53295. Sixteen miles north of Benkelman.  
215087. No. 53296. Fourteen miles south of McCook.  
215088. No. 53297. Southeast of Franklin.  
215089. No. 53298. Eight miles north of O'Neill.  
215090. No. 53299. North of O'Neill.  
215091. No. 53300. Ten miles south of Niobrara.  
215092. No. 53301. Ponca State Park.  
215093. No. 53330. Two miles south of Grand Island.  
215094. No. 53331. Two miles south of Grand Island.  
215095. No. 53341. Seven miles west and 4 miles south of O'Neill.  
215096. No. 53350. Four miles west of Orleans.  
215097. No. 53393. Three miles south of Kearney.

215098 to 215106. *BOUTELOUA HIRSUTA* Lag.

215098. No. 53302. Three miles east of Potter.  
215099. No. 53303. Three miles southeast of Pine Bluffs.  
215100. No. 53304. Southeast of Pine Bluffs.  
215101. No. 53305. Five miles north of North Platte.  
215102. No. 53306. Nineteen miles south of Thedford.

## 214453 to 215319—Continued

## 215098 to 215106—Continued

215103. No. 53307. Nine miles north of Imperial.  
 215104. No. 53308. Thirty-four miles north of St. Paul.  
 215105. One mile southeast of Wisner.  
 215106. No. 53310. Nine miles south of Tecumseh.

215107 to 215117. *BUCHLOE DACTYLOIDES* (Nutt.) Engelm. Poaceae. Buffalo grass.

215107. No. 53311. Five miles west of Harrisburg. Highly rhizomatous.  
 215108. No. 53312. Fourteen miles northeast of Harrison. Large clones.  
 212109. No. 53313. Fourteen miles northeast of Harrison. Large clones.  
 215110 to 215115. Two miles northeast of Lincoln.

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| 215110. No. 53323. | 215113. No. 53326. |
| 215111. No. 53324. | 215114. No. 53327. |
| 215112. No. 53325. | 215115. No. 53328. |

215116. No. 53329. Two miles south of Grand Island.  
 215117. No. 53348. One mile north and ½ mile west of Westerville.

215118 to 215126. *KOELERIA CRISTATA* (L.) Pers. Poaceae. Junegrass.

215118. No. 53314. Three miles southeast of Pine Bluffs.  
 215119. No. 53315. Three miles southeast of Pine Bluffs.  
 215120. No. 53316. Four miles southeast of Flowerfield.  
 215121. No. 53317. Ten miles south of Gering.  
 215122. No. 53318. Two miles east of Fort Robinson.  
 215123. No. 53319. Twenty-two miles south of Bassett.  
 215124. No. 53320. Three miles south of South Platte River, southeast of North Platte Experiment Station.  
 215125. No. 53321. Eight miles south of Thedford.  
 215126. No. 53322. One mile southeast of Wisner.

215127 and 215128. *ORYZOPSIS HYMENOIDES* (Roem. & Schult.) Ricker. Poaceae. Indian ricegrass.

215127. No. 53351. North of Benkelman.  
 215128. No. 53352. Twelve miles north of Kingsley Dam.

215129 to 215171. *PANICUM VIRGATUM* L. Poaceae. Switch grass.

215129. No. 53101. Three miles east of Potter. Grayish green in appearance.  
 215130. No. 53102. Eight miles north east of Harrisburg.  
 215131. No. 53103. One mile east of Fort Robinson.  
 215132. No. 53104. South of Chadron.  
 215133. No. 53105. Seventeen miles east of Gordon. Grayish green clone.  
 215134. No. 53106. Seventeen miles east of Garden. Tall green clone.  
 215135. No. 53107. Six miles west of Springview.  
 215136. No. 53108. Five miles north of North Platte.  
 215137. No. 53109. Five miles north of North Platte.



## 214453 to 215319—Continued

## 215129 to 215171—Continued

215138. No. 53110. Nine miles southeast of South Platte River. Highly rhizomatous.

215139. No. 53111. Nine miles southeast of South Platte River. Highly rhizomatous.

215140. No. 53112. Two miles west of North Platte. Highly rhizomatous.

215141. No. 53113. Two miles west of Stapleton.

215142. No. 53114. Twenty miles south of Thedford. Highly rhizomatous.

215143. No. 53115. Twenty miles north of Highway 2, two miles east of Thedford.

215144. No. 53116. East of Halsey National Forest.

215145. No. 53117. Five miles southeast of Hyannis on route to Arthur.

215146. No. 53118. Eight miles north of Imperial.

215147. No. 53119. Thirteen miles north of Benkelman. Highly rhizomatous.

215148. No. 53120. Nine miles east of Benkelman. Yellowish green leaves.

215149. No. 53121. Thirty-seven miles north of St. Paul.

215150. No. 53122. North of O'Neill.

215151. No. 53123. Eleven miles southwest of Ponca.

215152. No. 53124. Nine miles south of Tecumseh.

215153. No. 53125. Ten miles southeast of Pawnee City.

215154. No. 53126. Ten miles southeast of Pawnee City.

215155. No. 53127. Two miles east of Table Rock.

215156. No. 53128. On road south of South Platte River.

215157. No. 53129. On road south of South Platte.

215158 to 215167. On road south of South Platte River.

215158. No. 53130.

215163. No. 53135.

215159. No. 53131.

215164. No. 53136.

215160. No. 53132.

215165. No. 53137.

215161. No. 53133.

215166. No. 53138.

215162. No. 53134.

215167. No. 53139.

215168. No. 53140. Three miles northwest of North Platte.

215169. No. 53141. Three miles northwest of North Platte.

215170. No. 53333. Three miles north and  $\frac{3}{4}$  mile west of Fairgrounds.

215171. No. 53344. Eight miles south of O'Neill.

215172. *POA COMPRESSA* L. Poaceae.

Canada bluegrass.

No. 53335. Large robust clone.

215173. *SORGHASTRUM NUTANS* (L.) Nash. Poaceae.

Indian grass.

No. 53343. Five feet high, long leaved.



## 214453 to 215319—Continued

215174 and 215175. *STIPA COMATA* Trin. & Rupr. Poaceae.

215174. No. 53353. Twelve miles north of Kingsley Dam, Arthur County.

215175. No. 53354. Six miles west of Lisco.

215176 to 215179. *STIPA VIRIDULA* Trin.

215176. No. 53337. Three miles east of Belmont. Three feet high.

215177. No. 53338. Chadron State Park. Culms 3 feet high.

215178. No. 53339. Three miles west of Bassett.

215179. No. 53340. One mile south of Riverview.

215180 to 215319. Seeds.

215180 to 215188. *AMORPHA CANESCENS* Pursh. Fabaceae. **Leadplant.**

215180. No. 53414. Seven miles north of Stapleton.

215181. No. 53418. One mile east of Highway 83 on South Dakota state line.

215182. No. 53424. Ten miles east of Atkinson.

215183. No. 53450. Ten miles northwest of Grand Island.

215184. No. 53451. Eleven miles east of Ravena.

215185. No. 53452. Five miles east of Whitman. Large fruits.

215186. No. 53453. Four miles east of Eli.

215187. No. 53454. Ponca State Park.

215188. No. 53455. Seven miles west and 4 miles south of O'Neill.

215189 and 215190. *AMORPHA FRUTICOSA* L. **River locust.**

215189. No. 53456. One mile south of O'Neill. Five to 6 feet high.

215190. No. 53507. One mile northeast of Lewiston.

215191 and 215192. *ASTRAGALUS CARYOCARPUS* Ker. Fabaceae.

215191. No. 53403. Northwest Jefferson County, Little Sandy Creek.

215192. No. 53457. Eight miles south of Crawford.

215193. *BAPTISIA LEUCANTHA* Torr. & Gray. Fabaceae. **Wild indigo.**

No. 53508. Two miles south and 4 miles west of Nebraska City.

215194 and 215195. *CASSIA FASCICULATA* Michx. Caesalpiiniaceae. **Partridgepea.**

215194. No. 53458. Niobrara State Park.

215195. No. 53518. Holt County.

215196 to 215199. *DALEA ENNEANDRA* Nutt. Fabaceae.

215196. No. 53459. Eight miles north of Chadron.

215197. No. 53460. Meadville, in Niobrara valley.

215198. No. 53461. South of Spencer at dam on the Niobrara River.

215199. No. 53462. Four miles east of Niobrara.

215200 to 215208. *DESMANTHUS ILLINOENSIS* (Michx.) MacM. Mimosaceae.

215200. No. 53406. Five miles southwest of Gibbon.

215201. No. 53463. One-half mile southeast of Ravenna.

215202. No. 53464. Four miles northwest of Niobrara.

## 214453 to 215319—Continued

## 215180 to 215319—Continued

## 215200 to 215208—Continued

- 215203. No. 53465. Niobrara State Park.
- 215204. No. 53509. Nebraska National Guard Grounds.
- 215205. No. 53510. Three miles north of Lewiston.
- 215206. No. 53511. Five miles south of Rulo.
- 215207. No. 53531. Six miles west of Cambridge.
- 215208. No. 53539. One mile west of North Platte.

## 215209 to 215215. GLYCYRRHIZA LEPIDOTA Pursh. Fabaceae. Wild licorice.

- 215209. No. 53405. South of Gibbon.
- 215210. No. 53411. Two miles west and 1 mile north of Fairgrounds at North Platte.
- 215211. No. 53417. Five miles east of Highway 83, on South Dakota State line.
- 215212. No. 53434. West of Stuart on county line.
- 215213. No. 53437. Baker Ranch southwest of Valentine.
- 215214. No. 53466. Three miles east of Whitman.
- 215215. No. 53467. Eight miles north of Harrison.

## 215216. ASTRAGALUS TENELLUS Pursh. Fabaceae.

- No. 53468. Two miles north of Belmont.

## 215217 to 215225. LESPEDEZA CAPITATA Michx. Fabaceae.

- 215217. No. 53429. Holt County.
- 215218. No. 53863. Holt County.
- 215219. No. 53440. Section 23, 5 miles north of Halsey.
- 215220. No. 53469. Seven miles west and 3 miles south of O'Neill. One to 2 feet high.
- 215221. No. 53512. East of Ashland on Nebraska National Guard grounds.
- 215222. No. 53513. Five miles west of Rulo.
- 215223. No. 53514. One mile east and 1 mile north of Mayberry.
- 215224. No. 53519. Eight miles north of Stapleton.
- 215225. No. 53520. Six miles south and 4 miles west of Chambers.

## 215226 to 215228. LESPEDEZA STIPULACEA Maxim. Korean lespedeza.

- 215226. No. 53515. Nine miles north of Peru.
- 215227. No. 53516. Five miles south of Rulo.
- 215228. No. 53517. Six miles north and 3 miles east of Falls City.

## 215229 to 215237. LOTUS PURSHIANUS (Benth.) Clements &amp; Clements. Fabaceae. Deervetch.

- 215229. No. 53394. Southwest of Valentine, Cherry County. Leafy.
- 215230. No. 53426. South of Paige, west of Highway 108.
- 215231. No. 53428. North of Atkinson.
- 215232. No. 53436. Southwest of Valentine on shore of Baker Lake.
- 215233. No. 53470. South of Rushville on south slope of Niobrara valley.

**214453 to 215319—Continued****215180 to 215319—Continued****215229 to 215237—Continued**

215234. No. 53471. Three miles west of Basset.

215235. No. 53472. Three miles west of Atkinson.

215236. No. 53521. One mile west of Valentine Lakes Refuge Headquarters. Valentine.

215237. No. 53522. Five miles west of Derna.

215238. *LUPINUS* sp. Fabaceae.

215239. *LUPINUS* sp.

No. 53446. South of Harrison.

215240. *LUPINUS* sp.

No. 53473. Two miles north of Harrison. Glauous, succulent leaves.

215241. *LUPINUS* sp.

No. 53474. Two miles north of Harrison. Blue flowers.

215242 to 215245. *MEDICAGO LUPULINA* L. Fabaceae. **Black medic.**

215242. No. 53407. Eight miles southwest of Gibbon.

215243. No. 53416. Five miles east of Highway 83 on Bryant Ranch.

215244. No. 53427. East of Paige.

215245. No. 53475. Six miles north of Crawford.

215246. *OXYTROPIS LAMBERTII* Pursh. Fabaceae.

No. 53476. Two miles north of Belmont.

215247 and 215248. *PETALOSTEMUM CANDIDUM* (Willd.) Michx. Fabaceae.

215247. No. 53401. Two miles north of Powell in Jefferson County.

215248. No. 53420. Ten miles southeast of Valentine.

215249 to 215251. *PETALOSTEMUM OCCIDENTALE* (A. Gray) Fern. Fabaceae.

215249. No. 53478. Five miles west of Thedford. Prostrate, decumbent stems.

215250. No. 53479. Four miles west of Seneca.

215251. No. 53480. Two miles north of Harrison.

215252. *PETALOSTEMUM ALBIDUM* (Torr. & Gray) Small.

No. 53477. South of Rushville on south slope of Niobrara Valley.

215253 to 215257. *PETALOSTEMUM PURPUREUM* (Vent.) Rydb.

215253. No. 53400. Two miles north of Powell in Jefferson County.

215254. No. 53481. Eight miles west of Thedford.

215255. No. 53482. West of Seneca along Highway 2.

215256. No. 53483. Four miles east of Eli.

215257. No. 53484. Three miles west of Basset.

215258 to 215265. *PETALOSTEMUM VILLOSUM* (Spreng.) Nutt.

215258. No. 53409. East of North Platte along Highway 30.

215259. No. 53485. Five miles west of Thedford.

215260. No. 53486. Five miles east of Whitman. Decumbent stems.



**214453 to 215319—Continued****215180 to 215319—Continued****215258 to 215265—Continued**

215261. No. 53487. Six miles south of Rushville.

215262. No. 53488. Two miles east of Eli.

215263. No. 53489. Eight miles south of O'Neill.

215264. No. 53524. West of Dewey Lake, Valentine.

215265. No. 53525. Five miles west of Cumminsville in Wheeler County.

**215266. PETALOSTEMUM sp. Fabaceae.**

No. 53490. Large robust spike.

**215267 to 215271. PSORALEA ARGOPHYLLA Pursh. Fabaceae. Scurfpea.**

215267. No. 53408. Twelve miles southwest of Gibbon.

215268. No. 53413. One mile west of Fairgrounds at North Platte.

215269. No. 53491. Six miles north of Crawford.

215270. No. 53492. Two miles north of Belmont.

215271. No. 53493. Two miles west of Belmont.

No. 53494. Eight miles north of Chadron.

**215272. PSORALEA CUSPIDATA Pursh.****215273 and 215274. PSORALEA DIGITATA Nutt.**

215273. No. 53415. Seven miles north of Stapleton.

215274. No. 53495. Eight miles south of Rushville.

**215275 and 215276. PSORALEA ESCULENTA Pursh. Indian breadroot.**

215275. No. 53447. Wild Cat Hill State Park.

215276. No. 53448. Eight miles west of Lincoln in Lancaster County.

**215277 and 215278. PSORALEA LANCEOLATA Pursh. Scurfpea.**

215277. No. 53444. Four miles north of Sutherland. Extensive rhizomes.

215278. No. 53445. Ten miles south of Harrison. Extensive rhizomes.

**215279 to 215290. PSORALEA TENUIFLORA Pursh. Fabaceae.**

**Slimflower scurf-pea.**

215279. No. 53410. North bank of dam on the North Platte.

215280. No. 53412. One mile west of Fairgrounds, North Platte.

215281. No. 53419. One mile east of Highway 83 on South Dakota State line.

215282. No. 53496. Two miles southeast of Berwyn.

215283. No. 53497. Northeast section of Box Butte County.

215284. No. 53498. Four miles north of Crawford.

215285. No. 53499. Seven miles east of Belmont.

215286. No. 53500. Eight miles north of Chadron.

215287. No. 53501. Three miles west of Rushville.

215288. No. 53502. Six miles north of Rushville.

215289. No. 53503. Eight miles east of Gordon.

215290. No. 53530. Southeast of Franklin, north of Flat Top Mountain.



## 214453 to 215319—Continued

## 215180 to 215319—Continued

- 215291 and 215292. *PSORALEA TENUIFLORA* var. *FLORIBUNDA* (Nutt.) Rydb.  
Scurf-pea.
215291. No. 53399. Two miles north of Powell in Jefferson County.
215292. No. 53449. Eight miles west of Lincoln in Lancaster County.
- 215293 and 215294. *SCHRANKIA NUTTALLII* (DC.) Standl. Mimosaceae.
215293. No. 53504. North slope of Niobrara Valley at Mariaville.
215294. No. 53505. South of Spencer at dam on Niobrara River.
- 215295 and 215296. *STROPHOSTYLES HELVOLA* (L.) Ell. Fabaceae.
215295. No. 53402. Powell in Jefferson County at Big Sandy Creek.  
Roots thickly nodulated.
215296. No. 53506. Niobrara State Park, Niobrara.
- 215297 to 215302. *STROPHOSTYLES LEIOSPERMA* (Torr. & Gray) Piper.
215297. No. 53404. Two miles south of Grand Island.
215298. No. 53425. South Paige, intersection of Highways 108 and 20.
215299. No. 53435. Shore of Baker Lake. Large pods.
215300. No. 53526. Five miles northeast of Arnold.
215301. No. 53527. Two miles southeast of Loup City.
215302. No. 53528. Along Elkhorn River east of Clearwater.
- 215303 to 215308. *TRIFOLIUM HYBRIDUM* L. Fabaceae. Alsike clover.
215303. No. 53396. Twelve miles south and 1 mile west of Atkinson.
215304. No. 53421. Ten miles southeast of Valentine, along Highway 20.
215305. No. 53432. West of Elgin, Wheeler County on Wolf Brother's Ranch.
215306. No. 53439. Southwest of Valentine on Reece Ranch.
215307. No. 53441. Hooper on Nelson Farm.
215308. No. 53442. Hooper on Nelson Farm.
- 215309 to 215319. *TRIFOLIUM PRATENSE* L. Red clover.
215309. No. 53395. Seventeen miles south and 2 miles west of Atkinson.
215310. No. 53397. Southeast of Chambers on Summerer Ranch.
215311. No. 53398. South of Inman on Kopecky Ranch.
215312. No. 53422. Ten miles southeast of Valentine.
215313. No. 53423. Ten miles southeast of Valentine.
215314. No. 53430. West of Elgin in Wheeler County on Wolf Brother's Ranch.
215315. No. 53431. West of Elgin in Wheeler County on Wolf Brother's Ranch.
215316. No. 53433. One mile north and 3 miles east of intersection of highway on road to Chambers.
215317. No. 53438. Southwest of Valentine on Reece Ranch.
215318. No. 53443. Hooper on Nelson farm.
215319. No. 53529. One-half mile northwest of Foster.

**215320 to 215330. PYRUS COMMUNIS L. Malaceae. Pear.**

From France. Scions presented by G. Delbard, Pepinieres Georges Delbard, Malicorne. Received Apr. 7, 1954.

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|-----------------------------------|--------------------------------|
| 215320. <i>Antoine Defosse.</i>   | 215326. <i>Cl. Blanchet.</i>   |
| 215321. <i>Baronne Leroy.</i>     | 215327. <i>Mme. Bonnefond.</i> |
| 215322. <i>Belle Angevine.</i>    | 215328. <i>Mme. Dupuis.</i>    |
| 215323. <i>Belle Guerandaise.</i> | 215329. <i>Santa Clause.</i>   |
| 215324. <i>Beurre Chasset.</i>    | 215330. <i>Soeur Gregoire.</i> |
| 215325. <i>Beurre Mortillet.</i>  |                                |

**215331 and 215332. TRIFOLIUM PRATENSE L. Fabaceae. Red clover.**

From Norway. Seeds presented by H. Wexelsen, Institute of Genetics and Plant Breeding, Vollebakk. Received Apr. 7, 1954.

215331. *Molsted.*  
215332. *Vidurshor.*

**215333. TRITICUM AESTIVUM L. Poaceae. Common wheat.**

From Belgium. Seeds presented by Limbergh & Co., Brussels. Received Apr. 8, 1954.

*Hardwhite Pacific No. 1.*

**215334 to 215336.**

From Pakistan. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Maryland. Received Apr. 14, 1954.

**215334. CITRUS AURANTIFOLIA (Christm.) Swingle. Rutaceae. Lime.**

No. 13949. Punjab Agricultural College and Research Institute, Lyallpur, Punjab. April 1954. Small trees with dense foliage; fruits rather large, somewhat rough, juicy.

**215335. CITRUS SINENSIS (L.) Osbeck. Orange.**

No. 13948. *Blood Malta.* Market, Lyallpur, Punjab. April 1954. Small trees with fruits of *Valencia* type, juice pink to red.

**215336. CITRUS AURANTIFOLIA (Christm.) Swingle. Lime.**

No. 13947. Lahore, Punjab. April 1954. Plant dwarf, ornamental; fruits small, orbicular, thin-skinned, very juicy.

**215337 to 215341.**

From Jamaica. Seeds presented by J. H. Haughton, Department of Agriculture. Received Apr. 8, 1954.

215337. *DESMODIUM CANUM* (Gmel.) Schinz & Thell. Fabaceae.  
215338. *DESMODIUM GANGETICUM* (L.) DC.  
215339. *DESMODIUM SCORPIURUS* Desv.  
215340. *DESMODIUM TORTUOSUM* (Sw.) DC.  
215341. *DESMODIUM TRIFLORUM* (L.) DC.

**215342 to 215345.**

From Iraq. Seeds collected by H. Wayne Springfield, Agrostologist, American Embassy, Baghdad. Received Apr. 8, 1954.

215342. *ANDROPOGON ANNULATUS* Forsk. Poaceae.

S-49. *Zamzum*. Abu Ghraib Experiment Station lawn. Sept. 26, 1953. Perennial bunchgrass; culms 3-4 feet high.

215343. *HYPARRHENIA HIRTA* (L.) Stapf. Poaceae.

S-50. Eight km. north of Kirkuk. June 28, 1953. Altitude 1,300 feet; annual precipitation about 15 inches. Strong perennial bunchgrass.

215344. *ONOBRYCHIS LANATA* Boiss. Fabaceae.

No. S-48. Near Khanagin. May 3, 1953. Altitude 600-700 feet; annual precipitation about 12 inches. Rocky hillsides.

215345. *PENNISETUM ORIENTALE* (L.) Rich. Poaceae.

No. S-51. Five km. east of Rayat. July 1, 1953. Altitude about 4,500 feet; annual precipitation averaging 28 inches. Tufted perennial; culms 12-15 inches tall; strong, fibrous root system.

**215346 and 215347.**

From Argentina. Seeds presented by the Facultad de Agronomía Veterinaria, Buenos Aires. Received Apr. 8, 1954.

215346. *CHLORIS DISTICHOPHYLLA* Lag. Poaceae.

SD 54-89.

215347. *CHLORIS POLYDACTYLA* Swartz.

SD 54-90.

**215348. KOCHIA INDICA** Wight. *Chenopodiaceae*.

From India. Seeds presented by the Indian Agricultural Research Institute, New Delhi. Received Apr. 9, 1954.

**215349 to 215395.**

From Ethiopia. Seeds collected by H. W. Staten, Imperial Ethiopian College of Agriculture and Mechanical Arts, Addis Ababa. Received Apr. 9, 1954.

215349. *ANDROPOGON ABYSSINICUS* R. Br. Poaceae.

From the Matahari Plain.

215350. *ANDROPOGON CHRYSOTACHYUS* Steud.

215351. *ANDROPOGON* sp.

From east of Awash.

215352. *ANDROPOGON* sp.

215353. *ARISTIDA* sp. Poaceae.

From the Matahari Plain.

215354. *ASTRAGALUS* sp. Fabaceae.

215355. *BRACHIARIA BRIZANTHA* (Hochst.) Stapf. Poaceae.

From near Shashamana.

215356 and 215357. *CHRYSOPOGON AUCHERI* (Boiss.) Stapf. Poaceae.

215356. From the Rift Valley.

215357. From near Awash.

215358. *CHLORIS PYCNOTHRIX* Trin. Poaceae.

From the Rift Valley near Shashamana.

## 215349 to 215395—Continued

215359. *CHLORIS* sp.

From the Awash River Valley.

215360. *CHLORIS* sp.

From the Matahari Plain.

215361. *CROTALARIA* sp. Fabaceae.

From Shashamana.

215362. *DACTYLOCTENIUM AEGYPTIUM* (L.) Richter. Poaceae.

From the Rift Valley near Shashamana.

215363. *DANTHONIOPSIS BARBATA* (Nees) C. E. Hubb. Poaceae.

From the Matahari Plain.

215364 and 215365. *ELEUSINE CORACANA* (L.) Gaertn. Poaceae.

African millet.

215364. From Dagussa, Amharic.

215365. Near Junna.

215366. *ELEUSINE* sp.215367. *ERAGROSTIS* sp. Poaceae.

From the Rift Valley.

215368. *ERAGROSTIS* sp.

From the Rift Valley.

215369. *HARPACHNE SCHIMPERI* Hochst. Poaceae.

From the Rift Valley.

215370. *HETEROPOGON CONTORTUS* (L.) Beauv. Poaceae.215371. *HORDEUM* sp. Poaceae.215372. *HYPARRHENIA RUFA* (Nees) Stapf. Poaceae.

Jaragua grass.

From Lakunpti.

215373. *HYPARRHENIA* sp.215374. *HYPARRHENIA* sp.215375. *HYPARRHENIA* sp.

From Harar.

215376. *HYPARRHENIA* sp.

From Harar.

215377. *PANICUM* sp. Poaceae.

Originally from near Nairobi, Kenya.

215378. *PAPPOPHORUM* sp. Poaceae.

From the Rift Valley.

215379. *PENNISETUM CILIARE* (L.) Link. Poaceae.

From the Rift Valley.

215380 to 215390. *SORGHUM VULGARE* Pers. Poaceae.

215380. No. 1.

215386. No. 7.

215381. No. 2.

215387. No. 8.

215382. No. 3.

215388. No. 9.

215383. No. 4.

215389. No. 10.

215384. No. 5.

215390. No. 11.

215385. No. 6.



## 215349 to 215395—Continued

215391. *TETRAPOGON SPATHACEUS* (Hochst.) Hackel. Poaceae.

From the Rift Valley.

215392. *THEMEDA TRIANDRA* Forsk. Poaceae.215393. *TRICHOLAENA REPENS* (Willd.) Hitchc. Poaceae.

From Jimma.

215394 and 215395. *ZEA MAYS* L. Poaceae.

Corn.

215394. White dent. From Patinelli's Ranch; originally from Italy.

215395. Yellow dent. From Patinelli's Ranch; originally from Italy.

215396 to 215406. *FRAGARIA*. Rosaceae.

Strawberry.

From Japan. Plants presented by the Agricultural Experiment Station, Durume, Fukuoka. Received Apr. 12, 1954.

215396. *Kurume* No. 1. (*Miyazaki* × *Fairfax*.)215397. *Kurume* No. 4. (*Marshall* × *Dorsett*.)215398. *Kurume* No. 6. (*Akashi* × *Fairfax*.)215399. *Kurume* No. 7. (*Akashi* × *Fairfax*.)215400. *Kurume* No. 8. (*Akashi* × *Fairfax*.)215401. *Kurume* No. 10. (*Akashi* × *Fairfax*.)215402. *Kurume* No. 12. (*Ettersburg* × *Fairfax*.)215403. *Kurume* No. 14. (*Akashi* × *Fairfax*.)215404. *Marshall*.215405. *Mimakigahara*.215406. *Miyazaki*.215407 to 215412. *ORYZA SATIVA* L. Poaceae.

Rice.

From Texas. Seeds presented by H. M. Beachell, Beaumont. Received Apr. 9, 1954.

215407. Italian variety; originally from El Salvador; matures in 2 months.

215408. *Rexoro*. Originally from Colombia.215409. *Sanakevelle paddy*. Originally from Liberia.

215410 to 215412. Originally from Cuba.

215410. *White Rexoro* (gold).215411. *White Rexoro* (rough).215412. *White Rexoro* (smooth).215413 to 215430. *VITIS*. Vitaceae.

Grape.

From France. Budwood presented by Maclet-Botton, Villefranche-en-Beaujolais, Rhone. Received Apr. 12, 1954.

215413. *Baco 2-16*.215419. *Kuhlmann 191-1*.215414. *Bertille Seyve 2667*.215420. *Kuhlmann 237-2*.215415. *Buridin 4503*.215421. *Kuhlmann 296-1*.215416. *Buridin 4650*.215422. *Landot 540*.215417. *Humbert 3*.215423. *Landot 760*.215418. *Kuhlmann 149-3*.215424. *Ravat 6*.

## 215413 to 215430—Continued

- |                              |                                      |
|------------------------------|--------------------------------------|
| 215425. <i>Seibel 5575.</i>  | 215428. <i>Seyve Villard 12-259.</i> |
| 215426. <i>Seibel 13666.</i> | 215429. <i>Seyve Villard 12-481.</i> |
| 215427. <i>Seibel 13669.</i> | 215430. <i>Seyve Villard 19-439.</i> |

## 215431 to 215441.

From Pakistan. Cuttings collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 12, 1954.

From the Punjab Agricultural College and Research Institute, Lyallpur. Punjab. Apr. 23, 1954.

215431. CITRUS AURANTIFOLIA (Christm.) Swingle. Rutaceae. Lime.

No. 13889. *Mathotra*. Small sprawling tree; fruit very large, very juicy.

- 215432 and 215433. CITRUS LIMETTA Risso. Sweet lime.

215432. No. 13894. Small tree with open crown; medium-sized, very juicy fruits.

215433. No. 13895. Small tree with mostly staminate flowers, fruits small.

- 215434 and 215435. CITRUS AURANTIFOLIA (Christm.) Swingle. Lime.

215434. No. 13896. *Sour lime, Kaghzi*. Small spreading tree, susceptible to citrus canker; fruits small, thin-skinned with seeds. Continuous bearer.

215435. No. 13897. *Sour lime*. Spreading thorny tree with small fruits; flowers twice a year.

215436. CITRUS LIMON (L.) Burm. f. Lemon.

No. 13892. Small tree with seedless fruits about 3 inches long.

215437. CITRUS MEDICA L. Citron.

No. 13898. Differs from common type; long twigs.

215438. CITRUS PARADISI Macfad. Grapefruit.

No. 13893. A low, wide-spreading tree with dense leaves.

215439. CITRUS sp.

No. 13888. *Atoni*. Forms small symmetrical tree at 15 years with straight, smooth trunk 8 inches in diameter; fruits rough-skinned, sour, oblong, twice size of an orange.

- 215440 and 215441. ZIZIPHUS MAURITIANA Lam. Rhamnaceae. Bor.

215440. No. 13891. Variety with small fruits.

215441. No. 13890. Variety with large fruits.

## 215442 to 215475.

From India. Cuttings presented by the Director, Sugar Cane Breeding Institute, Coimbatore. Received Apr. 13, 1954.

- 215442 to 215453. SACCHARUM. Poaceae. Sugarcane.

215442. Co. 349. 215448. Co. 547.

215443. Co. 352. 215449. Co. 615.

215444. Co. 393. 215450. Co. 644.

215445. Co. 441. 215451. Co. 649.

215446. Co. 467. 215452. Co. K34.

215447. Co. 532. 215453. B.O. 4.

## 215442 to 215475—Continued

## 215454 to 215475. SACCHARUM SPONTANEUM L.

215454. 84A.	215465. 205B.
215455. 100A.	215466. 208.
215456. 106A.	215467. 220.
215457. 113A.	215468. 231.
215458. 154B.	215469. 243.
215459. 182.	215470. 298A.
215460. 186.	215471. 337B.
215461. 189.	215472. 348.
215462. 197A.	215473. 351.
215463. 197B.	215474. 365.
215464. 205A.	215475. Thailand.

215476. CITRUS AURANTIUM L. Rutaceae. **Seville orange.**

From India. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 13, 1954.

No. 13844. Market, Nilgiri Hills. Mar. 17, 1954. Yellow, round fruits.

215477 to 215486. ORYZA SATIVA L. Poaceae. **Rice.**

From Italy. Seeds presented by the American Embassy, Rome. Received Apr. 13, 1954.

215477. <i>American 1600, No. 630.</i>	215482. <i>Razza 77.</i>
215478. <i>Ardito No. 631.</i>	215483. <i>Rinaldo Bersani No. 636.</i>
215479. <i>Ardito No. 632.</i>	215484. <i>Sesea No. 637.</i>
215480. <i>Ardizzone.</i>	215485. <i>Vialone No. 638.</i>
215481. <i>Maratelli No. 634.</i>	215486. <i>Vialone Nano No. 639.</i>

## 215487 to 215492.

From Pakistan. Plants collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 14, 1954.

215487 and 215488. LITCHI CHINENSIS Sonner. Sapindaceae. **Lychee.**

215487. No. 13945. *Tukhmia*. Lahore, Punjab. April 1954.

215488. No. 13946. *Beydasa*. A small-seeded variety. Lahore, Punjab.

215489 to 215492. MANGIFERA INDICA L. Anacardiaceae. **Mango.**

Punjab Agricultural College and Research Institute, Lyallpur, Punjab. April 1954.

215489. No. 13941. *Langra*. Regarded as the best variety in Pakistan for quality of fruit, habit, hardiness and yield.

215490. No. 13942. *Alfonso*. Spreading tree with good fruit quality.

215491. No. 13943. *Amandersarhi*. Spreading tree with good quality fruits.

215492. No. 13944. *Sumar Behisht*. Spreading tree with good quality fruits.

**215493. (Undetermined.) Poaceae.**

From Japan. Stolons presented by Kan Yashiroda, the Acclimatization Garden, Tonosho-kyoku, Kagawaken. Received Apr. 14, 1954.

A slender-leaved grass that endures poor, sandy, dry soils, making a good turf for lawns.

**215494. PHYLLOSTACHYS NUDA McClure. Poaceae. Bamboo.**

From Maryland. Plants presented by George Darrow, Horticultural Crops Research Branch, Beltsville. Received Apr. 15, 1954.

**215495. TEPHROSIA VOGELII Hook. f. Fabaceae.**

From the Belgian Congo. Seeds presented by the Director, Institute National Pour L'Etude Agronomique du Congo Belge, Yangambi, Stanleyville. Received Apr. 15, 1954.

No. 30/54.

**215496 to 215498.**

From Ethiopia. Seeds presented by Pierre G. Sylvain, Food and Agriculture Organization of the United Nations, Addis Ababa. Received Apr. 15, 1954.

**215496. COFFEA ARABICA L. Rubiaceae. Arabian coffee.**

*S.11—Arousi.* From Bacacsa, Aroussi Province. Altitude 5,500 feet.

**215497. CORDIA ABYSSINICA R. Br. Boraginaceae.**

*Wanza.* Tree up to 80 feet high with reddish mahogany-like timber. Used as coffee shade in eastern Africa. From Bacacsa.

**215498. ERYTHRINA sp. Fabaceae.**

*Korch.* From Bacacsa, Arussi. Of possible value for shading coffee.

**215499 to 215512. FRAGARIA. Rosaceae. Strawberry.**

From France. Plants presented by Roland Chapron, Caen (Calvados). Received Apr. 16, 1954.

215499. *Charles Simmen.*

215506. *Reine de Tihange.*

215500. *Cuompke de Liege.*

215507. *Saint Fiacre.*

215501. *DeWungesser.*

215508. *Sans Rivale.*

215502. *Madame Moutot.*

215509. *St. Claude.*

215503. *Muscade.*

215510. *Surprise des Halles.*

215504. *President de Devansaye.*

215511. *Triomphe.*

215505. *Record.*

215512. *Ville de Caen.*

**215513 to 215515. BRASSICA OLERACEA var. CAPITATA L.**

Brassicaceae.

**Cabbage.**

From Germany. Seeds presented by the Max Planck Institut für Zuchtforschung, Ladenburg/Neckar, Rosenhof. Received Apr. 19, 1954.

215513. *Bindsachsener.*

215514. *Böhmer A.*

215515. *Böhmer F.*

**215516. TRITICUM AESTIVUM L. Poaceae.**

**Common wheat.**

From Argentina. Seeds presented by the Division de Exploraciones e Introducción de Plantas, Buenos Aires. Received Apr. 19, 1954.



**215517 to 215523. ORYZA SATIVA L. Poaceae. Rice.**

From France. Seeds presented by the Laboratoire d'Agriculture, Montpellier (Hérault). Received Apr. 19, 1954.

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|----------------------------------|---------------------------------|
| 215517. <i>Allorio 11.</i>       | 215521. <i>Rinaldo Bersani.</i> |
| 215518. <i>Americano 1600-F.</i> | 215522. <i>Sesia.</i>           |
| 215519. <i>Balilla 28.</i>       | 215523. <i>Stirpe 136-F.</i>    |
| 215520. <i>Maratelli.</i>        |                                 |

**215524. SIMMONDSIA CHINENSIS (Link) C. Schneid. Buxaceae. Jojoba.**

From California. Cuttings collected by W. H. Hodge, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 19, 1954.

Collected at San Bernardino. April 1954.

**215525 to 215569.**

From England. Plants purchased from H. G. Hillier, Winchester, Hampshire. Received Apr. 19, 1954.

- |  |                   |               |
|--|-------------------|---------------|
| 215525. <i>ABIES FABRI (Mast.) Craib.</i>              | Pinaceae.         | <b>Fir.</b>   |
| 215526. <i>ACER ARGUTUM Maxim.</i>                     | Aceraceae.        | <b>Maple.</b> |
| 215527. <i>ACER CAPPADOCICUM var. TRICAUDATUM</i>      | Rehd.             |               |
| 215528. <i>ACER DAVIDII Franch</i>                     |                   |               |
| <i>Horizontale.</i>                                    |                   |               |
| 215529. <i>ACER PLATANOIDES L.</i>                     |                   |               |
| <i>Drummondii.</i>                                     |                   |               |
| 215530. <i>ACER PSEUDOPLATANUS f. CORSTORPHINENSE</i>  | Schiver.          |               |
| 215531 and 215532. <i>ACER PSEUDOPLATANUS L.</i>       |                   |               |
| 215531. <i>Nizetii.</i>                                |                   |               |
| 215532. <i>Worlei.</i>                                 |                   |               |
| 215533. <i>ACER RUFINERVE Sieb. &amp; Zucc.</i>        |                   |               |
| <i>Albo-limbatum.</i>                                  |                   |               |
| 215534. <i>ACER VELUTINUM var. VAN VOLXEMI (Mast.)</i> | Rehd.             |               |
| 215535. <i>ACER CAPPADOCICUM var. TRICAUDATUM</i>      | Rehd.             |               |
| 215536. <i>AESCULUS CHINENSIS Bunge.</i>               | Hippocastanaceae. |               |
| 215537. <i>AESCULUS WILSONII</i>                       | Rehd.             |               |
| 215538. <i>FRAXINUS EXCELSIOR L.</i>                   | Oleaceae.         |               |
| <i>Aurea Pendula.</i>                                  |                   |               |
| 215539. <i>ILEX MACROCARPA Oliver.</i>                 | Aquifoliaceae.    | <b>Holly.</b> |
| 215540. <i>LARIX DECIDUA Mill.</i>                     | Pinaceae.         | <b>Larch.</b> |
| <i>Fastigiata.</i>                                     |                   |               |
| 215541. <i>LARIX GMELINII var. JAPONICA (Maxim.)</i>   | Pilger.           |               |
| 215542 and 215543. <i>MALUS ROBUSTA</i>                | Rehder.           | Malaceae.     |
| 215542. <i>Yellow Siberian.</i>                        |                   |               |
| 215543. <i>Red Siberian.</i>                           |                   |               |
| 215544. <i>MALUS TRILOBATA (Labill.)</i>               | Schneid.          |               |

## 215525 to 215569—Continued

215545. MALUS.

*Wisley Crab.*

215546 and 215547. PHILADELPHUS. Saxifragaceae.

215546. *Beauclerk.*215547. *Burfordiensis.*

215548. POPULUS ALBA L. Salicaceae.

Poplar.

*Polizkyana.*

215549 and 215550. PRUNUS CERASIFERA Ehrh. Amygdalaceae.

Myrobalan plum.

215549. *Hessei.*215550. *Lindsayae.*

215551. PRUNUS CERASUS L.

Sour cherry.

*Rhexi.*

215552. PRUNUS CORNUTA (Wall.) Steud.

215553. × PRUNUS DAWYCKENSIS Sealy.

215554. PRUNUS NIPPONICA var. KURILENSIS Wilson.

215555 and 215556. PRUNUS SUBHIRTILLA Miq.

Higan cherry.

215555 *Ascendens Floraplena.*215556. *Ito-kukuri.*

215557 to 215564. PRUNUS SERRULATA Lindl.

Oriental flowering cherry.

215557. *Asagi.*215561. *Hata-zakura.*215558. *Asano*215562. *Kokonoye-zakura.*215559. *Benden.*215563. *Okiku-zakura.*215560. *Fukurokujū*215564. *Shimidsu-zakura.*

215565. SALIX ALBA L. Salicaceae.

Willow.

*Argentea.*

215566. SALIX REPENS L.

*Argentea.*

215567. SALIX WILSONII.

215568. ULMUS CARPINIFOLIA Gleditsch. Ulmaceae.

Elm.

*Sarniensis Aurea.*

215569. ULMUS PROCERA Salisb.

*Van Houttei.*

## 215570 to 215572.

From Pakistan. Collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 20, 1954.

Near Muree in mountains, Punjab. Apr. 13, 1954.

215570. DUCHESNEA INDICA (Andr.) Focke. Rosaceae.

No. 14010. Altitude 5,000–6,000 feet. Pine forest. (Plants.)

## 215570 to 215572—Continued

215571. *FRAGARIA VESCA* L. Rosaceae. Alpine strawberry.

No. 14001. Altitude 6,000 feet. Pine-oak forest.

215572. *TULIPA STELLATA* Hook. Liliaceae. Tulip.

No. 14002. Altitude 6,000 feet. Pine-oak forest. Flowers white and pink.

## 215573 to 215615.

From India. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 20, 1954.

215573. *ABUTILON INDICUM* G. Don. Malvaceae.

No. 13730. *China Jute*. Pusa, Bihar, near Delhi. February 1954. Cultivated for fiber.

215574. *AESCHYNOMENE INDICA* L. Fabaceae.

No. 13725. Government seed farm, Sirsa, Punjab. February 1954.

215575. *AGROPYRON* sp. Poaceae.

No. 13723. Government seed farm, Sirsa, Punjab. February 1954. Altitude 4,000 feet.

215576. *ARUNDINELLA* sp. Poaceae.

No. 13695. Between Kalka and Simla along road, Pepsu. Feb. 25, 1954. Altitude 3,000 feet. Coarse perennial; abundant; cut as wild hay.

215577. *BETA VULGARIS* L. Chenopodiaceae. Beet.

No. 13676. Market, Ferozepur, Punjab. Feb. 23, 1954. Sandy plain. Grown as a green leafy vegetable.

215578. *BRASSICA CAMPESTRIS* var. *SARSON* Prain. Brassicaceae.

No. 13729. Pusa, 40 miles from Delhi. Feb. 25, 1954. Cultivated for oil.

215579 to 215582. *BRASSICA NAPUS* L. Rape.

215579. No. 13663. Sirsa, Punjab. Feb. 21, 1954. Cultivated for oil.

215580. No. 13675. Market, Ferozepur, Punjab. Feb. 23, 1954. Sandy plain. Summer grown as oil seed.

215581. No. 13684. Market, Moga, Punjab. Feb. 24, 1954. Summer grown as an oil seed.

215582. No. 13710. Government seed farm, Sirsa, Punjab. February 1954. Winter annual forming a dense growth 15 inches tall. Cultivated as a forage plant.

215583. *CAJANUS CAJAN* (L.) Druce. Fabaceae. Pigeonpea.

No. 13736. Department of Agriculture, Bangalore, Mysore. February 1954. Local variety used for table pulse and as soil builder.

215584. *CAPPARIS APHYLLA* Roth. Capparidaceae.

No. 13654. Fourteen miles north of Hissar, Punjab. Feb. 21, 1954. Leafless thorny shrub with green stems.

215585. *CHLORIS DOLICHOSTACHYA* Lag. Poaceae.

No. 13636. Ten miles west of Dehra Dun, along road to Saharanpur. Feb. 14, 1954. Perennial with small leaf bulk and long culms; palatable.

## 215573 to 215615—Continued

215586 and 215587. *CHRYSOPOGON MONTANUS* Trin. Poaceae.

215586. No. 13694. Between Kalka and Simla along road to the mountains, Pepsu. Feb. 25, 1954. Altitude 3,000 feet. Vigorous perennial forming extensive colonies on slopes.

215587. No. 13722. Government seed farm, Sirsa, Punjab. February 1954. Altitude 4,000 feet.

215588. *CICER ARIETINUM* L. Fabaceae.

Chickpea.

215589. *CUCUMIS TRIGONUS* Roxb. Cucurbitaceae.

No. 13598. Seven miles west of Dehra Dun, along road to Saharampur. Feb. 14, 1954. Fruits ovoid, 2 inches in diameter, faintly striped with scattered soft prickles.

215590 and 215591. *CYAMOPSIS TETRAGONOLOBA* (L.) Taub. Fabaceae.

Guar.

215590. No. 13643. Government farm, Hansi, Punjab. Feb. 20, 1954. Local strain; seed used as bullock food, considered fattening.

215591. No. 13686. Market, Moga, Punjab. Feb. 24, 1954. Grown for forage.

215592. *DACTYLOCTENIUM AEGYPTIUM* (L.) Richter. Poaceae.

No. 13653. Fourteen miles north of Hissar, Punjab. Feb. 21, 1954. Perennial with small leaf bulk, nutritious.

215593. *ERAGROSTIS* sp. Poaceae.

No. 13603. Ten miles west of Dehra Dun, along road to Saharampur. Feb. 14, 1954. Steep banks in hardwood forest. Perennial with thick clumps of slender long leaves.

215594. *JATROPHA GOSSYPIFOLIA* L. Euphorbiaceae.

No. 13593. Forestry Botanic Garden, Dehra Dun. Feb. 13, 1954. Spreading shrub with ascending fleshy branches, now leafless.

215595. *MEDICAGO SATIVA* L. Fabaceae.

Alfalfa.

No. 13640. *T-81*. Government farm, Hansi, Punjab. Feb. 20, 1954.

215596. *MELILOTUS INDICA* (L.) All. Fabaceae.

Sweetclover.

No. 13707. *Senji No. 1*. Government farm, Sirsa, Punjab. February 1954. Used as green manure and fodder.

215597. *PANICUM* sp. Poaceae.

No. 13602. Ten miles west of Dehra Dun, along road to Saharanpur. Feb. 14, 1954. Hardwood forest. Perennial with light leaves and long culms.

215598. *PASPALUM SCROBICULATUM* L. Poaceae.

No. 13727. Government farm, Sirsa, Punjab. February 1954. Altitude 4,000 feet.

215599. *PENNISETUM CILIARE* (L.) Link. Poaceae.

No. 13659. Four miles north of Badopl, Hissar District, Punjab. Feb. 21, 1954. Regarded by stockmen as best natural feed; abundant on range area.

215600 and 215601. *PENNISETUM ORIENTALE* (L.) Rich.

215600. No. 13696. Between Kalka and Simla along road, Pepsu. Feb. 25, 1954. Altitude 3,000 feet. Large coarse perennial 3-6 feet high, browsed by cattle.

215601. No. 13719. Government seed farm, Sirsa, Punjab. February 1954. Altitude 4,000 feet.



**215573 to 215615—Continued**

**215602 and 215603.** *PENNISETUM SPICATUM* (L.) Willd. Pearl millet.

**215602.** No. 13687. Market, Moga Punjab. Feb. 24, 1954. Sandy plain. Summer grown; frequently dry-farmed. Used primarily as cattle fodder.

**215603.** No. 13735. Department of Agriculture, Bangalore. February 1954. Used for fodder.

**215604.** *SACCHARUM ARUNDINACEUM* Retz. Poaceae.

No. 13604. Ten miles west of Dehra Dun, along road to Saharampur. Feb. 14, 1954. Hardwood forest area.

**215605.** *SACCHARUM MUNJA* Roxb.

No. 13606. Twenty miles east of Saharampur along road to Dehra Dun. Feb. 14, 1954. Tall robust grass used for making roll screens. Cultivated as field hedges.

**215606 and 215607.** *SESBANIA BISPINOSA* (Jacq.) W. F. Wight. Fabaceae.

**215606.** No. 13638. Hansi, Punjab. Feb. 20, 1954. Used for forage and green manure.

**215607.** No. 13739. Department of Agriculture, Bangalore, Mysore. February 1954. Used as green manure.

**215608.** *SESBANIA SESBAN* (L.) Merr.

No. 13661. Sirsa, Punjab. Feb. 21, 1954. Tall, single stemmed annual; apparently spontaneous.

**215609 to 215611.** *SORGHUM VULGARE* Pers. Poaceae.

Government seed farm, Sirsa, Punjab. February 1954. Varieties selected for fodder.

**215609.** No. 13713. Government seed farm, Punjab. February 1954. Selected variety cultivated for fodder.

**215610.** No. 13714. Government farm, Sirsa, Punjab. February 1954. Selected variety cultivated for fodder.

**215611.** No. 13715. Government seed farm, Sirsa, Punjab. February 1954. Selected variety; fodder type.

**215612.** *THEMEDA ANATHERA* (Nees) Hack. Poaceae.

No. 13699. Sixteen miles north of Kalka, along road to Simla, Pepsu. Feb. 25, 1954. Perennial with thin leafy base and long curving culms.

**215613 and 215614.** *TRIFOLIUM ALEXANDRINUM* L. Fabaceae. Berseem.

**215613.** No. 13642. Government farm, Hansi, Punjab. Feb. 20, 1954. Irrigated annual used for cattle feed; cut 3-4 times a year.

**215614.** No. 13716. Government seed farm, Sirsa, Punjab. February 1954. Vigorous, quick-growing annual with succulent stem; rather hydrophytic. Cut 3-4 times a year for cattle feed.

**215615.** *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae. Fenugreek.

No. 13705. Government farm at Sirsa, Punjab. February 1954. Local improved variety.

**215616.** *VICIA LINEARIFOLIA* Hook. & Arn. Fabaceae.

From Brazil. Seeds presented by the Departamento de Defesa Sanitaria da Agricultura, Instituto Biológico, São Paulo. Received Apr. 20, 1954.

**215617 to 215623. SOLANUM TUBEROSUM L. Solanaceae. Potato.**

From Scotland. Tubers presented by the Scottish Plant Breeding Station, Edinburgh. Received Apr. 20, 1954.

215617. 1661b (7). R<sub>1</sub> R<sub>3</sub>. 215620. 2070 (50) R<sub>2</sub> R<sub>3</sub> R<sub>4</sub>.

215618. 2070 (30). R<sub>1</sub> R<sub>2</sub> R<sub>3</sub> R<sub>4</sub>. 215621. 2070 (51) R<sub>1</sub> R<sub>3</sub> R<sub>4</sub>.

215619. 2070 (31) R<sub>2</sub> R<sub>4</sub>. 215622. 2070 (64) R<sub>1</sub> R<sub>2</sub> R<sub>3</sub>.

215623. 2070 (69) R<sub>1</sub> R<sub>2</sub> R<sub>4</sub>.

**215624 to 215628. TRITICUM AESTIVUM L. Poaceae.****Common wheat.**

From Finland. Seeds presented by Vilho A. Pesola, Department of Plant Breeding, Jokioinen. Received Apr. 20, 1954.

215624. *Apu*. 215627. *Tera*.

215625. *Kiuru*. 215628. *Vakka*.

215626. *Olympia*.

**215629 to 215661.**

From India. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 21, 1954.

215629. *BOTHRIOCHLOA PERTUSA* (L.) A. Camus. Poaceae.

No. 13726. Government seed farm, Sirsa, Punjab. February 1954. Altitude 4,000 feet.

215630. *ANDROPOGON* sp.

No. 13697. Sixteen miles north of Kalka along road to Simla, Pepsu. Feb. 25, 1954. Altitude 4,500 feet. Low perennial with few sagging culms.

215631 and 215632. *APLUDA ARISTATA* Torner. Poaceae.

215631. No. 13601. Ten miles west of Dehra Dun along road to Saharapur. Feb. 14, 1954. Perennial with light foliage and slender culms 12-17 inches high.

215632. No. 13692. Himalayan foothills along road from Kalka to Simla. Feb. 25, 1954. Altitude 2,500 feet. Leafy perennial with long culms.

215633. *ASPARAGUS* sp. Liliaceae.

No. 13655. Fourteen miles north of Hissar, Punjab. Feb. 21, 1954. Sandy shrub grassland. Woody trailer on shrubs in desert.

215634. *ASPARAGUS* sp.

No. 13698. Sixteen miles north of Kalka along road to Simla, Pepsu. Feb. 25, 1954. Tall slender graceful, monopodial shrub.

215635. *BRASSICA* sp. Brassicaceae.

No. 13639. Var. *L. 18*. Government farm, Hansi, Punjab. February 1954. Sandy plain. Fifteen inches high, grown with wheat in rows. Used as cattle fodder when pods form.

215636. *BRASSICA* sp.

No. 13651. *Rai*. Market, Hissar, Punjab. Feb. 20, 1954. Sandy plain. Seeds used as a pickling mustard.

215637. *CENCRUS BIFLORUS* Roxb. Poaceae.

No. 13656. Fourteen miles north of Hissar, Punjab. Feb. 21, 1954. Sparse annual of poor forage value.

## 215629 to 215661—Continued

215638 and 215639. *CENCHRUS SETIGERUS* Vahl.

215638. No. 13664. Fourteen miles north of Hissar, Punjab. Feb. 21, 1954. Perennial with small spreading leaf crown.

215639. No. 13670. Twelve miles northwest of Sirsa, Punjab. Feb. 22, 1954. Low spreading perennial with tender leaves, well liked by stock.

215640 and 215641. *CROTALARIA JUNCSEA* L. Fabaceae. Sunn-hemp.

215640. No. 13741. Department of Agriculture, Bangalore, Mysore, February 1954. Cultivated for fiber and as green manure.

215641. No. 13742. Department of Agriculture, Bangalore, Mysore, February 1954.

215642. *CROTALARIA MUCRONATA* Desf. Fabaceae.

No. 13740. Department of Agriculture, Bangalore, Mysore. February 1954. Cultivated for green manure.

215643. *CYMBOPOGON SCHOENANTHUS* (L.) Spreng. Poaceae.

No. 13669. Twelve miles northwest of Sirsa, Punjab. Feb. 22, 1954. Perennial with leafy bushy base of narrow bluish-green leaves.

215644. *CYMBOPOGON* sp.

No. 13700. Fourteen miles north of Kalka, along road to Simla, Pepsu. Feb. 25, 1954. Perennial with many culms and citronella odor from foliage.

215645. *CYMBOPOGON* sp.

No. 13701. Sixteen miles north of Kalka, along road to Simla, Pepsu. Feb. 25, 1954. Late-flowering clone with culms only 6 inches high.

215646 and 215647. *PANICUM ANTIDOTALE* Retz. Poaceae.

215646. No. 13662. Sirsa, Punjab. Feb. 21, 1954. Tall perennial.

215647. No. 13668. Twelve miles northwest of Sirsa, Punjab. Feb. 22, 1954. Tall perennial growing up through thorny bushes.

215648 and 215649. *PHASEOLUS ACONITIFOLIUS* Jacq. Fabaceae.

Moth bean.

215648. No. 13652. Market, Hissar, Punjab. Feb. 20, 1954. Local variety.

215649. No. 13708. Government seed farm, Sirsa, Punjab. February 1954. Local variety used for cattle fodder.

215650. *PHASEOLUS AUREUS* Roxb.

Mung bean.

No. 13644. Market, Hansi, Punjab. Feb. 20, 1954. Used as table food and for cattle.

215651. *SETARIA GLAUCA* (L.) Beauv. Poaceae.

No. 13721. Government Seed Farm, Sirsa, Punjab. February 1954. Altitude 4,000 feet.

215652. *SETARIA PALMIFOLIA* (Willd.) Stapf.

No. 13724. Government Seed Farm, Sirsa, Punjab. February 1954. Collected in Himalayan foothills. Altitude 3,000–5,000 feet. February 1953.

215653. *SORGHUM* sp. Poaceae.

No. 13733. Eight miles west of Dehra Dun, United Provinces. February 1954.



## 215629 to 215661—Continued

215654 and 215655. *SORGHUM VULGARE* Pers.

215654. No. 13641. Government Seed Farm, Hansi, Punjab. Feb. 20, 1954. Used for cattle fodder.

215655. No. 13683. Market, Moga, Punjab. February 1954. Irrigated summer crops.

215656. *TRITICUM AESTIVUM* L. Poaceae.

Common wheat.

No. 13685. Market, Moga, Punjab. Feb. 24, 1954. Hard wheat grown in winter.

215657 and 215658. *VETIVERIA ZIZANIOIDES* (L.) Nash. Poaceae.

215657. No. 13704. Between Ambala and Karnal, Punjab. Feb. 26, 1954. Moist depression in sandy plain. Coarse perennial growing by pool; roots yield oil used commercially.

215658. No. 13720. Government Seed Farm, Sirsa, Punjab. February 1954. Altitude 4,500 feet. Roots yield oil.

215659. *VIGNA SESQUIPEDALIS* (L.) Fruwirth. Fabaceae.

Asparagus-bean.

No. 13738. *Philippine Early*. Department of Agriculture, Bangalore, Mysore.215660. *VIGNA SINENSIS* (Torner) Savi.

Cowpea.

No. 13706. Government Seed Farm, Sirsa, Punjab. February 1954. Local variety.

215661. *SESBANIA SPECIOSA* Taub. Fabaceae.

No. 13737. Department of Agriculture, Bangalore, Mysore. February 1954. Green-manure crop.

## 215662 to 215664.

From Japan. Seeds presented by the Japan Department of Agriculture and Forestry, Shikoku Agricultural Experiment Station, Zentsuji, Kagawa, Shikoku. Received Apr. 21, 1954.

215662. *CITRUS TACHIBANA* (Makino) Tanaka. Rutaceae.

Grows wild in Kochi Prefecture.

215663. *ORYZA SATIVA* L. Poaceae.

Rice.

Perfumed rice. It emits a sweet smell at its flowering stage and when boiled.

215664. *CAMELLIA SINENSIS* (L.) Kuntze. Theaceae.

Tea.

From mountainous areas, Kochi Prefecture.

## 215665 to 215680.

From Sweden. Seeds presented by W. Weibull, Landskrona. Received Apr. 21, 1954.

215665. *BROMUS* sp. Poaceae.*Pyramid.*215666. *DACTYLIS GLOMERATA* L. Poaceae.

Orchard grass.

*Cocksfoot W:S Tardus II.*215667. *FESTUCA ELATIOR* L. Poaceae.

Meadow fescue.

*Mimes.*215668. *FESTUCA RUBRA* L.

Red fescue.

*Reptans.*



## 215665 to 215680—Continued

215669. *LOLIUM MULTIFLORUM* Lam. Poaceae. Italian ryegrass.  
*Imperial.*

215670. *LOLIUM PERENNE* L. Perennial ryegrass.  
*Viris.*

215671. *MEDICAGO SATIVA* L. Fabaceae.  
*Luzan W:S Alfa.*

215672 and 215673. *PHLEUM PRATENSE* L. Poaceae. Timothy.  
215672. *W:S Rampe II.*

215673. *W:S T 41.*

215674. *TRIFOLIUM HYBRIDUM* L. Fabaceae.  
*W:S Tetra.*

215675 to 215677. *TRIFOLIUM PRATENSE* L. Red clover.  
215675. *Resistentia.*

215676. *W:S R11.*

215677. *Tetra R 28.*

215678 to 215680. *TRIFOLIUM REPENS* L. White clover.  
215678. *Nora.*

215679. *Robusta.*

215680. *W:S V22.*

215681 to 215685. *TRIFOLIUM PRATENSE* L. Fabaceae. Red clover.

From Sweden. Seeds presented by Norrbottens län Hushållningssällskap, Luleå. Received Apr. 22, 1954.

215681. *Bollsta.*

215684. *Tuna.*

215682. *Kustrask.*

215685. *Ultuna.*

215683. *Offer.*

215686. × *AGROLYMUS TURNERI* Lapage. Poaceae.

From Canada. Stolons collected by G. H. Turner, Fort Saskatchewan, Alberta. Received Apr. 22, 1954.

From high bank of South Saskatchewan River, 2 miles below Fort Saskatchewan.

215687. *BETA VULGARIS* L. Chenopodiaceae. Beet.

From the Netherlands. Seeds presented by the Instituut Voor Rationele Suikerproductie, Bergen Op Zoom. Received Apr. 22, 1954.

215688 to 215693. *GLYCINE MAX* (L.) Merr. Fabaceae. Soybean.

From Israel. Seeds presented by the Ministry of Agriculture and Development, Agricultural Research Station, Rehovot. Received Apr. 22, 1954.

215688. 1618/3/14.

215691. 1718/2/12.

215689. 1618/4/6.

215692. 1718/11/15.

215690. 1718/2/2.

215693. Local variety.

## 215694 to 215722

From Peru. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 23, 1954.

215694. *ANNONA CHERIMOLA* Mill. Annonaceae. Cherimoya.

No. 203-S. Market, Lima. Mar. 4, 1954.

215695 and 215696. *ARACHIS HYPOGAEA* L. Fabaceae. Common peanut.

215695. No. 414. *Maní Tarapote*. Experiment Station, Tingo María. Mar. 20, 1954.

215696. No. 198. Market, Lima. Mar. 4, 1954.

215697 to 215700. *CAPSICUM FRUTESCENS* L. Solanaceae. Redpepper.

215697. No. 392. Puma, east of Tingo María. Mar. 17, 1954.

215698. No. 393. Puma, east of Tingo María. Mar. 17, 1954.

215699. No. 470. Market, Laoroya. Mar. 24, 1954. Yellow-green pepper with purple cast; slightly elongated.

215700. No. 474. Market, Matucana. Mar. 24, 1954. Elongated orange-yellow pepper.

215701. *CARICA MONOICA* Desf. Caricaceae.

No. 387. Near Tingo María, Mar. 8, 1954. Small tree. Fruit cooked before eating.

215702. *CICER ARIETINUM* L. Fabaceae. Chickpea.

No. 403. Market, Tingo María. Mar. 19, 1954.

215703. *COFFEA ARABICA* L. Rubiaceae. Arabian coffee.

No. 337. Carmen Alto, 110 miles northeast of Huanuco. Mar. 17, 1954. Altitude 4,000 feet.

215704. *CORCHORUS CAPSULARIS* L. Tiliaceae. Jute.

No. 434. Experiment Station, Tingo María. Mar. 20, 1954.

215705. *CROTALARIA* sp. Fabaceae.

No. 366. East of Divisoria, between Tingo María and Boqueron. Mar. 18, 1954. Altitude 5,000 feet. Shrub up to 3 feet high.

215706. *CUCURBITA MOSCHATA* Duchesne. Cucurbitaceae. Cushaw.

No. 200. *Avinca*. Market, Lima. Mar. 4, 1954.

215707. *CYCLANTHERA* sp. Cucurbitaceae.

No. 202. *Caihua*. Market, Lima. Mar. 4, 1954.

215708. *HORDEUM* sp. Poaceae. Barley.

No. 196. Market, Lima. Mar. 4, 1954. Altitude 3,500 feet.

215709. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato.

No. 432. Experiment Station, Tingo María. Mar. 20, 1954.

215710 to 215714. *ORYZA SATIVA* L. Poaceae. Rice.

215710. No. 404. *Catetao Dourado*. Experiment Station, Tingo María. Mar. 20, 1954.

215711. No. 405. *Catetao Dourado*. Experiment Station, Tingo María. Mar. 20, 1954.

215712. No. 406. *Minabir No. 2*. Experiment Station, Tingo María. Mar. 20, 1954.

215713. No. 407. *Minabir No. 3*. Experiment Station, Tingo María. Mar. 20, 1954.

215714. No. 409. *Minabir No. 4*. Experiment Station, Tingo María. Mar. 20, 1954.

## 215694 to 215722—Continued

215715. *PHASEOLUS LUNATUS* L. Fabaceae. Lima bean.  
No. 197. *Pallar*. Market, Lima. Mar. 4, 1954.

215716 to 215719. *PHASEOLUS VULGARIS* L. Common bean.

215716. No. 195. *Frijol Canario*. Market, Lima. Mar. 4, 1954.

215717. No. 401. *Porota de Huanuco*. Market, Tingo María. Mar. 19, 1954.

215718. No. 412. *Frijol Puerto Rico*. Experiment Station, Tingo María. Mar. 20, 1954.

215719. No. 496. *Sazandajá*. Wholesale market, Lima. Mar. 26, 1954.

215720 to 215722. *RICINUS COMMUNIS* L. Euphorbiaceae. Castorbean.  
Experiment Station, Tingo María. Mar. 20, 1954.

215720. No. 421.

215721. No. 423.

215722. No. 428.

## 215723 to 215779.

From Peru. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 26, 1954.

215723. *ANNONA CHERIMOLA* Mill. Annonaceae. Cherimoya.  
No. 506. Hotel Maury, Lima. Mar. 26, 1954.

215724. *ARACHIS HYPOGAEA* L. Fabaceae. Common peanut.  
No. 413. *Tingo María*. Experiment Station, Tingo María. Mar. 20, 1954.

215725. *CAJANUS CAJAN* (L.) Druce. Fabaceae. Pigeonpea.  
No. 411. *Frijol de Palo*.; T.M. 2784. Experiment Station, Tingo María. Mar. 20, 1954.

215726. *CANNA* sp. Cannaceae.

No. 336. Near Tingo María Experiment Station, Tingo María. Mar. 16, 1954. Altitude 2,000 feet. Flowers red.

215727 to 215743. *CAPSICUM FRUTESCENS* L. Solanaceae. Redpepper.

215727. No. 204. Market, Lima. Mar. 4, 1954. Fruits yellow.

215728. No. 205. Market, Lima. Mar. 4, 1954. Fruits red.

215729. No. 390. Puma, east of Tingo María. Mar. 17, 1954.

215730. No. 391. Puma, east of Tingo María. Mar. 17, 1954.

215731. No. 394. Tingo María. Mar. 19, 1954.

215732. No. 395. Tingo María. Mar. 19, 1954.

215733. No. 441. Market, Huánuco. Mar. 23, 1914. Fruits yellow, fluted, roundish.

215734. No. 442. Market, Huánuco. Mar. 23, 1954. Fruits yellow.

215735. No. 443. Market, Huánuco. Mar. 23, 1954. Reddish-orange elongated pepper.

215736. No. 444. Market, Huánuco. Mar. 23, 1954. Red elongate pepper.

215737. No. 445. Market, Huánuco. Mar. 23, 1954. Red, medium elongate pepper.

## 215723 to 215779—Continued

## 215727 to 215743—Continued

215738. No. 446. Market, Huánuco. Mar. 23, 1954. Short, red globose pepper.
215739. No. 469. Market, La Oroya. Mar. 24, 1954. Small elongate.
215740. No. 471. Market, La Oroya. Mar. 24, 1954. Semi-round, black seeds.
215741. No. 472. Market, La Oroya. Mar. 24, 1954. Semi-elongate.
215742. No. 473. Market, La Oroya. Mar. 24, 1954. Fruits elongate, yellow-green with a purple cast.
215743. No. 497. *Pimentón*. Wholesale market, Lima. Mar. 26, 1954.
- 215744 and 215745. *CARICA PAPAYA* L. Caricaceae. **Papaya.**
215744. No. 388. Tingo María. Mar. 8, 1954.
215745. No. 389. Tingo María. Mar. 8, 1954.
215746. *CHENOPODIUM QUINOA* Willd. Chenopodiaceae. **Quinoa.**
- No. 194. Market, Lima. Mar. 4, 1954.
215747. *COIX LACHRYMA-JOBI* var. *MA-YUEN* (Romanet) Stapf. Poaceae. **Adlay.**
- No. 431. T.M. 159. Experiment Station, Tingo María. Mar. 20, 1954.
- 215748 and 215749. *CORCHORUS CAPSULARIS* L. Tiliaceae. **Jute.**
215748. No. 433. T.M. 2593. Experiment Station, Tingo María. Mar. 20, 1954.
215749. No. 435. T.M. 2594. Experiment Station, Tingo María. Mar. 20, 1954.
215750. *CUCURBITA MAXIMA* Duchesne. Cucurbitaceae. **Squash.**
- No. 199. *Macre*. Market, Lima. Mar. 4, 1954. Large, yellow fruit.
215751. *CUCURBITA PEPO* L. **Pumpkin.**
- No. 201. *Loche*. Market, Lima. Fruits medium-sized, gourd-shaped, with small tapering end.
- 215752 and 215753. *DOLICHOS LABLAB* L. Fabaceae. **Hyacinth-bean.**
215752. No. 396. Market, Tingo María. Mar. 10, 1954.
215753. No. 399. *Frijol Santregos*. Market, Tingo María. Mar. 10, 1954.
- 215754 and 215755. *GLYCINE MAX* (L.) Merr. Fabaceae. **Soybean.**
215754. No. 429. *Soya Charlee*; T.M. 86. Experiment Station, Tingo María. Mar. 20, 1954.
215755. No. 430. *Soya Ootootan*; T.M. 83. Experiment Station, Tingo María. Mar. 20, 1954.
- 215756 to 215758. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. **Tomato.**
215756. No. 207. Market, Lima. Mar. 4, 1954.
215757. No. 440. *España*. Market, Huánuco. Mar. 23, 1954. Fruits reddish-orange with dark red streaks. Flavor slightly tart.
215758. No. 498. Wholesale market, Lima. Mar. 26, 1954.
215759. *ORYZA SATIVA* L. Poaceae. **Rice.**
- No. 408. *Minabir*; T.M. 3013-1. Experiment Station, Tingo María. Mar. 20, 1954.



**215723 to 215779—Continued**

215760. *PASSIFLORA LINGULARIS* Juss. Passifloraceae.

No. 206. *Granadillo*. Market, Lima. Mar. 4, 1954.

215761. *PHASEOLUS CALCARATUS* Roxb. Fabaceae.

Rice bean.

No. 410. *Frijol de Arroz*; *T.M. 1136*. Experiment Station, Tingo María. Mar. 20, 1954.

215762 to 215764. *PHASEOLUS VULGARIS* L.

Common bean.

215762. No. 400. *Panamita*. Market, Tingo María. Mar. 19, 1954.

215763. No. 490. *Canario*. Experiment Station, La Molina, Lima. Mar. 26, 1954. One of the best varieties in Peru.

215764. No. 491. *Bayo*. La Molina Experiment Station, Lima. Mar. 26, 1954.

215765. *PHASEOLUS* sp.

No. 398. *Huallaginos*. Market, Tingo María. Mar. 10, 1954.

215766. *PISUM SATIVUM* L. Fabaceae.

Pea.

No. 397. *Alreцыos*. Market, Tingo María. Mar. 10, 1954.

215767. *PUERARIA PHASEOLOIDES* (Roxb.) Benth. Fabaceae. Tropical kudzu.

No. 415. *T.M. 315*. Experiment Station, Tingo María. Mar. 20, 1954.

215768 to 215776. *RICINUS COMMUNIS* L. Euphorbiaceae.

Castorbean.

From Experiment Station, Tingo María. Mar. 20, 1954.

215768. No. 417. *T.M. 2776*.

215773. No. 424. *T.M. 2954*.

215769. No. 418. *T.M. 2777*.

215774. No. 425. *T.M. 2955*.

215770. No. 419. *T.M. 2913*.

215775. No. 426. *T.M. 2957*.

215771. No. 410. *T.M. 2914*.

215776. No. 427. *T.M. 2958*.

215772. No. 422. *T.M. 2948*.

215777 and 215778. *TRITICUM AESTIVUM* L. Poaceae.

Common wheat.

215777. No. 492. *Mariache 50*. La Molina Experiment Station, Lima.

215778. No. 493. *Marina 50*. La Molina Experiment Station, Lima.

215779. *VIGNA SINENSIS* (Torner) Savi. Fabaceae.

Cowpea.

No. 402. *Frijol de Castilla*. Market, Tingo María. Mar. 19, 1954.

215780. *GOSSYPIUM BARBADENSE* L. Malvaceae.

Sea-island cotton.

From Peru. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 28, 1954.

No. 494. *Algodon Tangus*. La Molina Experiment Station, Lima. Mar. 26, 1954. Long fiber; wilt resistant.

215781. *AEGILOPS TRIUNCIALIS* L. Poaceae.

From Afghanistan. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md., Received Apr. 28, 1954.

No. 12819. Twenty miles northeast of Keshim, Badakhshan Province. Oct. 16, 1953.

**215782 and 215783. ZEA MAYS L. Poaceae. Corn.**

From Switzerland. Seeds presented by George Popow, Swiss Experiment Station for Agriculture, Zürich-Oerlikon. Received Apr. 28, 1954.

215782. *Heinrichs Bergreis*.

215783. *M 250*.

**215784. DIOSCOREA DELTOIDEA Wall. Dioscoreaceae.**

From Pakistan. Tubers collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 29, 1954.

No. 14003. (No note.)

**215785 and 215786. MEDICAGO SATIVA L. Fabaceae. Alfalfa.**

From Peru. Seeds presented by A. F. Swanson, Foreign Agricultural Service, United States Department of Agriculture, Washington, D.C. Received May 3, 1954.

From the La Molina Experiment Station, La Molina. Originally from Iran.

215785. Zahadi No. 1.

215786. Zahadi No. 2.

**215787 to 215792.**

From the Dominican Republic. Seeds presented by J. D. Aughtry, Experiment Station, Barahona. Received Apr. 26, 1954.

**215787 to 215790. SORGHUM. Poaceae.**

215787. No. 3.

215789. No. 5.

215788. No. 4.

215790. No. 6.

**215791. SORGHUM VULGARE Pers.**

No. 2.

**215792. SORGHUM sp.**

No. 1.

**215793. EUPHORBIA ANTISIPHYLITICA Zucc. Euphorbiaceae.**

From Texas. Plants at the United States Plant Introduction Garden, Glenn Dale, Md. Numbered Apr. 26, 1954.

Collected by Walter H. Hodge Apr. 20, 1954, Overton Ranch 50 miles south-east of Marathon, Brewster County.

**215794 to 215804.**

From Germany. Plants purchased from the H. A. Hesse Baumschulen, Weener (Ems). Received Apr. 26, 1954.

**215794. ACER ZOESCHENSE Pax. Aceraceae. Maple.**

*Annae*.

**215795 and 215796. MALUS BACCATA (L.) Moench. Malaceae. Crabapple.**

215795. *Flavescens*.

215796. *Lady Ilgen*.

**215797. POPULUS TREMULA L. Salicaceae. Poplar.**

*Purpurea*.

## 215794 to 215804—Continued

215798 and 215799. PRUNUS CERASIFERA f. ATROPURPUREA Jäger.  
Amygdalaceae.

215798. *Hessei*.

215799. *Purpusii*.

215800. PRUNUS CERASIFERA Ehrh. Myrobalan plum.  
*Variegata*.

215801 and 215802. PRUNUS SERRULATA Lindl. Oriental flowering cherry.

215801. *Alba Plena*.

215802. *Rosea Plena*.

215803. PRUNUS SUBHIRTILLA Miq. Higan cherry.  
*Plena*.

215804. ULMUS PROCERA f. AUREA (Morren.) Rehd. Ulmaceae. Elm.

## 215805 to 215810.

From Denmark. Seeds presented by I. Daehnfeldt, Odense. Received Apr. 27, 1954.

215805. DACTYLIS GLOMERATA L. Poaceae. Orchard grass.  
*Adefa II*.

215806. PHLEUM PRATENSE L. Poaceae. Timothy.

215807 and 215808. TRIFOLIUM PRATENSE L. Fabaceae. Red clover.

215807. *Half Late Daeno III*.

215808. *Hinderupgaard III*.

215809 and 215810. TRIFOLIUM REPENS L. White clover.

215809. *Adefa IV*.

215810. *Daehnfeldt*.

215811. GLYCINE MAX (L.) Merr. Fabaceae. Soybean.

From Afghanistan. Seeds collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch. Received Jan. 27, 1954; numbered Apr. 27, 1954.

No. 13100 B. Market, Jalalabad. Nov. 18, 1954. Small black variety.

215812 to 216023. ORYZA SATIVA L. Poaceae. Rice.

From Formosa. Seeds presented by Dr. Eikichi Iso, thru the American Embassy, Taipei. Received Apr. 28, 1954.

215812 to 215815. *Karen-iku*.

215812. No. 5.

215814. No. 17.

215813. No. 12.

215815. No. 20.

215816 to 215827. *Shinchiku*.

215816. No. 4.

215822. No. 51.

215817. No. 5.

215823. No. 52.

215818. No. 6.

215824. No. 53.

215819. No. 8.

215825. No. 54.

215820. No. 24.

215826. No. 55.

215821. No. 50.

215827. No. 56.

## 215812 to 216023—Continued

215828 to 215861. *Shinchiku-iku.*

215828. No. 19.	215845. No. 143.
215829. No. 26.	215846. No. 144.
215830. No. 43.	215847. No. 146.
215831. No. 74.	215848. No. 147.
215832. No. 76.	215849. No. 148.
215833. No. 92.	215850. No. 149.
215834. No. 95.	215851. No. 150.
215835. No. 96.	215852. No. 152.
215836. No. 97.	215853. No. 153.
215837. No. 103.	215854. No. 154.
215838. No. 104.	215855. No. 155.
215839. No. 119.	215856. No. 157.
215840. No. 124.	215857. No. 160.
215841. No. 125.	215858. No. 161.
215842. No. 130.	215859. No. 162.
215843. No. 132.	215860. No. 163.
215844. No. 138.	215861. No. 164.

215862. *Shinchiku-mochi.*

No. 3.

215863 to 215874. *Shinchiku-mochi-iku.*

215863. No. 5.	215869. No. 39.
215864. No. 9.	215870. No. 40.
215865. No. 11.	215871. No. 41.
215866. No. 13.	215872. No. 42.
215867. No. 33.	215873. No. 43.
215868. No. 36.	215874. No. 44.

215875 to 215888. *Taichu.*

215875. No. 65.	215882. No. 161.
215876. No. 114.	215883. No. 162.
215877. No. 117.	215884. No. 163.
215878. No. 122.	215885. No. 164.
215879. No. 150.	215886. No. 166.
215880. No. 153.	215887. No. 167.
215881. No. 160.	215888. No. 401.

215889 to 215893. *Taichu-iku.*

215889. No. 39.	215892. No. 58.
215890. No. 43.	215893. No. 61.
215891. No. 57.	

215894 to 215898. *Taichu-mochi.*

215894. No. 46.	215897. No. 66.
215895. No. 61.	215898. No. 67.
215896. No. 62.	



## 215812 to 216023—Continued

215899 to 215902. *Taichu-mochi-iku.*

215899. No. 21.

215901. No. 29.

215900. No. 26.

215902. No. 30.

215903 to 215909. *Taihoku.*

215903. No. 5.

215907. No. 172.

215904. No. 8.

215908. No. 177.

215905. No. 11.

215909. No. 301.

215906. No. 127.

215910 to 215912. *Taihoku-iku.*

215910. No. 73.

215911. No. 74.

215912. No. 111.

215913 to 215930. *Tainan.*

215913. No. 1.

215922. No. 10.

215914. No. 2.

215923. No. 14.

215915. No. 3.

215924. No. 15.

215916. No. 4.

215925. No. 16.

215917. No. 5.

215926. No. 17.

215918. No. 6.

215927. No. 18.

215919. No. 7.

215928. No. 19.

215920. No. 8.

215929. No. 20.

215921. No. 9.

215930. No. 21.

215931 to 215963. *Tainan-iku.*

215931. No. 37.

215948. No. 504.

215932. No. 446.

215949. No. 505.

215933. No. 484.

215950. No. 508.

215934. No. 485.

215951. No. 509.

215935. No. 486.

215952. No. 510.

215936. No. 487.

215953. No. 511.

215937. No. 488.

215954. No. 512.

215938. No. 489.

215955. No. 513.

215939. No. 490.

215956. No. 514.

215940. No. 491.

215957. No. 515.

215941. No. 492.

215958. No. 516.

215942. No. 495.

215959. No. 517.

215943. No. 497.

215960. No. 518.

215944. No. 498.

215961. No. 519.

215945. No. 500.

215962. No. 520.

215946. No. 501.

215963. No. 521.

215947. No. 502.

## 215812 to 216023—Continued

215964 to 215970. *Taino*.

215964. No. 16.	215968. No. 34.
215965. No. 28.	215969. No. 37.
215966. No. 29.	215970. No. 38.
215967. No. 33.	

215971 to 215986. *Takao*.

215971. No. 6.	215979. No. 22.
215972. No. 10.	215980. No. 23.
215973. No. 12.	215981. No. 24.
215974. No. 16.	215982. No. 25.
215975. No. 18.	215983. No. 26.
215976. No. 19.	215984. No. 27.
215977. No. 20.	215985. No. 28.
215978. No. 21.	215986. No. 29.

215987 to 216022. *Takao-iku*.

215987. No. 2.	216005. No. 40.
215988. No. 3.	216006. No. 41.
215989. No. 4.	216007. No. 42.
215990. No. 5.	216008. No. 43.
215991. No. 6.	216009. No. 44.
215992. No. 7.	216010. No. 45.
215993. No. 8.	216011. No. 46.
215994. No. 9.	216012. No. 47.
215995. No. 11.	216013. No. 48.
215996. No. 12.	216014. No. 49.
215997. No. 13.	216015. No. 50.
215998. No. 14.	216016. No. 51.
215999. No. 18.	216017. No. 52.
216000. No. 19.	216018. No. 53.
216001. No. 23.	216019. No. 54.
216002. No. 37.	216020. No. 55.
216003. No. 38.	216021. No. 56.
216004. No. 39.	216022. No. 57.

216023. *Yoshino*.

No. 1.

## 216024 to 216051.

From India. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 29, 1954.

216024. *ASPHODELUS* sp. Liliaceae.

No. 13871. Between Moga and Ludhiana, Punjab. Feb. 22, 1954. Erect winter annual, spontaneous in field.

## 216024 to 216051—Continued

216025. *CARICA PAPAYA* L. Caricaceae. Papaya.  
No. 13870. Pomological Station, Ootacamund. March 1954.
- 216026 to 216028. *CICER ARIETINUM* L. Fabaceae. Chickpea.  
216026. No. 13747. Market, Delhi. Mar. 6, 1954.  
216027. No. 13751. *Gram*. Market, Delhi. Mar. 6, 1954. Variety with unusually small and mostly smooth round seeds.  
216028. No. 13873. *Gram*. Market, Coonoor, Nilgiri Hills. March 1954. White variety with weak sculpturing.
216029. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. Watermelon.  
No. 13767. Market, Delhi. Mar. 6, 1954.
216030. *CUCUMIS MELO* L. Cucurbitaceae. Muskmelon.  
No. 13768. Market, Delhi. Mar. 6, 1954.
216031. *CUCURBITA MOSCHATA* Duchesne. Cucurbitaceae. Cushaw.  
No. 13766. Market, Delhi. Mar. 6, 1954.
216032. *CUCURBITA PEPO* L. Pumpkin.  
No. 13764. Market, Delhi. Mar. 6, 1954. "Summer squash" type.
216033. *ELEUSINE CORACANA* (L.) Gaertn. Poaceae. African millet.  
No. 13872. *Ragi*. Market, Coonoor, Nilgiri Hills. March 1954. Ground and eaten.
216034. *ERUCA SATIVA* Mill. Brassicaceae. Salad-rocket.  
No. 13581. (No field note.)
216035. *HORDEUM* sp. Poaceae. Barley.  
No. 13759. Market, Delhi. Mar. 6, 1954.
216036. *LENS CULINARIS* Medic. Fabaceae. Lentil.  
No. 13753. Market, Delhi. Mar. 6, 1954. Large seeds.
216037. *PASSIFLORA EDULIS* Sims. Passifloraceae. Purple granadilla.  
No. 13845. Coonoor, Nilgiri Hills. Mar. 17, 1954. Altitude 6,000 feet. Rainfall 60 inches.
216038. *PHASEOLUS ACONITIFOLIUS* Jacq. Fabaceae. Moth bean.  
No. 13746. Market, Delhi. Mar. 6, 1954.
216039. *PHASEOLUS MUNGO* L. Urd.  
No. 13760. Market, Delhi. Mar. 6, 1954.
- 216040 to 216043. *PHASEOLUS VULGARIS* L. Common bean.  
216040. No. 13750. Market, Delhi. Mar. 6, 1954. String bean type.  
216041. No. 13756. Market, Delhi. Mar. 6, 1954. Large, long red bean.  
216042. No. 13757. Market, Delhi. Mar. 6, 1954. Common pink bean.  
216043. No. 13758. Market, Delhi. Mar. 6, 1954. Medium dark red bean.
- 216044 to 216046. *PISUM SATIVUM* L. Fabaceae. Pea.  
216044. No. 13731. Indian Agricultural Research Institute, near Pusa, February 1954. Improved field pea used as green manure and as cattle feed.  
216045. No. 13748. Market, Delhi. Mar. 6, 1954. Forage pea with large, smooth whitish seeds.  
216046. No. 13761. Market, Delhi. Mar. 6, 1954. Field pea cultivated for cattle feed, for table use and as soil builder.

**216024 to 216051—Continued**

216047 and 216048. *SESAMUM INDICUM* L. Pedaliaceae. **Sesame.**

216047. No. 13743. Market, Delhi. Mar. 6, 1954. Small white seeds.

216048. No. 13744. Market, Delhi. Mar. 6, 1954. Black seeds.

216049. *TRIGONELLA CORNICULATA* L. Fabaceae.

No. 13762. Market, Delhi. Mar. 6, 1954. Cultivated as green vegetable; the terminal leaves cooked.

216050 and 216051. *VIGNA SINENSIS* (Torner) Savi. Fabaceae. **Cowpea.**

216050. No. 13749. Market, Delhi. Mar. 6, 1954. Seeds whitish, rather large.

216051. No. 13755. Market, Delhi. Mar. 6, 1954.

**216052 to 217384.**

From Mexico and southwestern United States. Collected in 1953 by staff members of the Agricultural Experiment Station, College Station, Tex. Numbered June 30, 1954. From Mexico unless otherwise noted.

216052 to 216663. Seeds of grasses.

216052. *AGROPYRON SMITHII* Rydb. Poaceae. **Western wheatgrass.**

No. XG 105. Junction, Kimble County, Texas. Altitude 1,700 feet.

216053 to 216101. *ANDROPOGON BARDINODIS* Lag. Poaceae.

216053. No. G 322. Ten miles north of Monclova.

216054. No. G 335. Thirty miles southeast of Del Rio, Tex.

216055. No. G 340. Forty-five miles southeast of Sanderson, Tex.

216056. No. G 349. Animal Disease Investigation Laboratory, Marfa, Tex. Early seed production.

216057. No. G 353. Animal Disease Investigation Laboratory, Marfa, Tex. Early seed production.

216058. No. G 369. North of Chihuahua, Chihuahua.

216059. No. G 380. North of Chihuahua, Chihuahua.

216060. No. G 419. North of Chihuahua, Chihuahua.

216061 to 216065. Between Chihuahua City and Cuauhtemoc.

216061. No. G 423.

216064. No. G 445.

216062. No. G 429.

216065. No. G 454.

216063. No. G 438.

216066. No. G 462. Between Chihuahua and Camargo, Chihuahua.

216067. No. G 477. Between Chihuahua and Camargo, Chihuahua.  
Six feet tall, heavy producer with large spikelets.

216068. No. G 519. North of Durango City.

216069. No. G 530. North of Durango City.

216070. No. G 538. North of Durango City.

216071. No. G 581. East of Durango City.

216072. No. G 594. Between Torreon and Bermejillo, Durango.

216073. No. G 661. West of Monterrey, Nuevo Leon. Altitude 1,800 feet.

216074. No. G 704. Between Torreon and Durango City.

216075. No. G 711. Between Torreon and Durango City. Glabrous foliage.



## 216052 to 217384—Continued

## 216052 to 216663—Continued

216076. No. G 738. Between Durango City and Aguascalientes City.

216077 to 216087. Between Durango City and Parral.

216077. No. G 741.

216078. No. G 745.

216079. No. G 756.

216080. No. G 760.

216081. No. G 769. Glumes not pitted.

216082. No. G 770. Glumes slightly pitted.

216083. No. G 774. Glumes not pitted.

216084. No. G 776.

216085. No. G 780. Glumes pitted.

216086. No. G 785. Glumes not pitted.

216087. No. G 786. Glumes slightly pitted.

216088 to 216094. Between Durango City and Mazatlan.

216088. No. G 789.

216089. No. G 790. Glumes not pitted.

216090. No. G 792. Plant large, glumes pitted, leaves coarse.

216091. No. G 800. Stem fine, leaves small, pits large.

216092. No. G 801. Glumes not pitted.

216093. No. G 818. Plant large, glumes not pitted.

216094. No. G 820. Plant small.

216095 to 216100. Between Durango City and Torreon.

216095. No. G 840. Glumes not pitted.

216096. No. G 841. Glumes deeply pitted.

216097. No. G 846. Glumes not pitted, very small plant.

216098. No. G 847. Glumes pitted.

216099. No. G 849.

216100. No. G 854. Glumes not pitted.

216101. No. G 866. Between Torreon and Saltillo. Glumes not pitted.

216102 to 216116. *ANDROPOGON CIRRATUS* Hack. Texas beardgrass.

216102. No. G 456. Between Chihuahua City and Cuauhtemoc.

216103. No. G 565. South of Durango City.

216104. No. G 717. Between Durango City and Aguascalientes. Mixture.

216105 to 216107. Between Durango City and Parral.

216105. No. G 749.

216106. No. G 758. Spikelets pubescent.

216107. No. G 759. Spikelets and foliage pubescent.

**216052 to 217384—Continued****216052 to 216663—Continued****216102 to 216116—Continued**

216108 to 216116. Between Durango City and Mazatlan.

- |                                 |                                  |
|---------------------------------|----------------------------------|
| 216108. No. G 796.              | 216113. No. G 823. Head fuzzy.   |
| 216109. No. G 805.              | 216114. No. G. 824. Head smooth. |
| 216110. No. B 806.              | 216115. No. G 833.               |
| 216111. No. G 816.              | 216116. No. G 835. Head smooth.  |
| 216112. No. G 822. Head pilose. |                                  |

216117. *ANDROPOGON EDWARDSIANUS* Gould. **Pinhole bluestem.**  
No. XG 108. Twenty-seven miles north of Kerrville, Kerr County, Tex.  
Altitude 2,500 feet.

216118. *ANDROPOGON GERARDII* Vitm. **Big bluestem.**  
No. XG 111. Twenty-seven miles north of Kerrville, Kerr County, Tex.  
Altitude 2,500 feet.

216119. *BOTHRIOCHLOA ISCHAEMUM* (L.) Keng.  
No. G 685. North of Monterrey, Nuevo Leon.

216120 to 216126. *ANDROPOGON PERFORATUS* Trin.

- |   |
|---|
| 216120. No. V 312. Fifteen miles southeast of Saltillo, Coahuila. |
| 216121. No. G 328. Ten miles north of Monclova, Coahuila.         |
| 216122. No. G 524. North of Durango City.                         |
| 216123. No. G 543. North of Durango City.                         |
| 216124. No. G 566. South of Durango City.                         |
| 216125. No. G 580. East of Durango City.                          |
| 216126. No. G 680. North of Monterrey, Nuevo Leon.                |

216127 to 216144. *ANDROPOGON SACCHAROIDES* Swartz. **Silver beardgrass.**  
216127. No. G 226. Ten miles north of Chihuahua City. Altitude  
4,900 feet.

216128. No. G 303. Forty miles west of Monterrey, Nuevo Leon.  
Altitude 5,000 feet.

216129. No. G 333. One mile northwest of Eagle Pass, Tex.

216130. No. G 338. Twenty-eight miles southeast of Del Rio, Tex.  
Plant glaucous, decumbent.

216131. No. G 385. North of Chihuahua City.

216132. No. G 585. East of Durango City. Stems fine, nodes with  
ring of short hair.

216133. No. G 588. East of Durango City. Plant 7 feet high; few  
hairs at nodes.

216134. No. G 598. Between Torreon and Bermejillo, Durango.

216135. No. G 611. Between Torreon and Saltillo, Coahuila.

216136. No. G 621. Between Torreon and Saltillo, Coahuila.

216137. No. G 626. Between Saltillo and Arteaga, Coahuila.

216138. No. G 655. Fifteen miles east of Saltillo, Coahuila. Altitude  
6,000 feet.

## 216052 to 217384—Continued

## 216052 to 216663—Continued

## 216127 to 216144—Continued

216139. No. G 656. Between Saltillo and Monterrey, Coahuila.  
Altitude 5,000 feet.

216140. No. G 666. South of Monterrey, Nuevo Leon. Altitude 1,800 feet.

216141. No. G 669. South of Monterrey, Nuevo Leon. Altitude 1,800 feet. Nodes glabrous, spikelets very small.

216142. No. G 674. North of Monterrey, Nuevo Leon.

216143. No. G 679. North of Monterrey, Nuevo Leon.

216144. No. G 687. North of Monterrey, Nuevo Leon.

216145 to 216147. ANDROPOGON SCOPARIUS Michx. Little bluestem.

216145. No. G 872. McFadden Ranch, Victoria, Tex.

216146. No. XG 112. Twenty-seven miles north of Kerrville on Kerr Wildlife Refuge, Kerr County, Tex. Altitude 2,500 feet.

216147. No. G 309. Fifteen miles southeast of Saltillo, Coahuila.  
Altitude 5,000 feet.

216148. ANDROPOGON TERNARIUS Michx.

No. G 871. McFadden Ranch, Victoria, Tex.

216149 to 216154. ANDROPOGON WRIGHTII Hack.

216149. No. G 455. Between Chihuahua City, Cuauhtemoc.

216150. No. G 575. South of Durango City.

216151. No. G 535. North of Durango City.

216152. No. G 571. South of Durango City.

216153. No. G 734. Between Durango City and Aguascalientes City.

216154. No. G 747. Between Durango City and Parral.

216155. ANDROPOGON sp.

No. G 359. Twenty-five miles east of Marathon, Tex. Near *A. wrightii*.

216156 to 216159. North of Chihuahua City.

216156. ANDROPOGON sp.

No. G 359. Near *A. saccharoides*.

216157. ANDROPOGON sp.

No. G 362.

216158. ANDROPOGON sp.

No. G 402. Near *A. saccharoides*.

216159. ANDROPOGON sp.

No. G 406. Near *A. cirratus*.

216160 to 216162. Between Chihuahua City and Camargo. Near *A. saccharoides*.

216160. ANDROPOGON sp.

No. G 460.

216161. ANDROPOGON sp.

No. G 466.

216162. ANDROPOGON sp.

No. G 470. Spikelets very small.

## 216052 to 217384—Continued

## 216052 to 216663—Continued

216163 to 216165. Between Camargo and Parral, Chihuahua. Near *A. saccharoides*.

216163. *ANDROPOGON* sp.

No. G 481.

216164. *ANDROPOGON* sp.

No. G 488.

216165. *ANDROPOGON* sp.

No. G 493.

216166 to 216172. Between Parral and Durango City.

216166. *ANDROPOGON* sp.

No. G 498. *Scoparius* group.

216167. *ANDROPOGON* sp.

No. G 503. Near *A. scoparius*.

216168. *ANDROPOGON* sp.

No. G 504. Near *A. saccharoides*.

216169. *ANDROPOGON* sp.

No. G 505. Near *A. wrightii*.

216170. *ANDROPOGON* sp.

No. G 512. Near *A. wrightii*.

216171. *ANDROPOGON* sp.

No. G 513. Near *A. wrightii*.

216172. *ANDROPOGON* sp.

No. G 514. Near *A. bardinodis*.

216173. *ANDROPOGON* sp.

No. G 536. North of Durango City. Near *A. perforatus*.

216174. *ANDROPOGON* sp.

No. G 537. North of Durango City. Near *A. cirratus*.

216175. *ANDROPOGON* sp.

No. G 547. Mexico Courts, Durango City. Near *A. bardinodis*.

216176 to 216180. South of Durango City.

216176. *ANDROPOGON* sp.

Near *A. saccharoides*.

216177. *ANDROPOGON* sp.

Near *A. bardinodis*.

216178. *ANDROPOGON* sp.

Near *A. perforatus*.

216179. *ANDROPOGON* sp.

Near *A. performatus*; 6.5 feet high.

216180. *ANDROPOGON* sp.

Large whirl of hair at nodes. Blades and sheaths tomentose.



## 216052 to 217384—Continued

## 216052 to 216663—Continued

## 216181. ANDROPOGON sp.

No. G 579. East of Durango City. Forms basal rosette of leaves which are pubescent on both sheath and blade. Pronounced ring of hair at nodes.

## 216182. ANDROPOGON sp.

No. G 584. East of Durango City. Stems coarse, ring of long hair on node. Glumes pitted. Near *A. bardinodis*.

## 216183. ANDROPOGON sp.

No. G 640. Fifteen miles east of Saltillo, Coahuila. Altitude 6,000 feet. Near *A. saccharoides*.

## 216184. ANDROPOGON sp.

No. G 660. West of Monterrey, Nuevo Leon. Altitude 1,800 feet. Near *A. glomeratus*.

## 216185. ANDROPOGON sp.

No. G 670. South of Monterrey, Nuevo Leon. Altitude 1,800 feet. Near *A. glomeratus*.

## 216186 to 216188. Between Torreon and Durango City.

## 216186. ANDROPOGON sp.

No. G 705. Has hairy foliage. Near *A. bardinodis*.

## 216187. ANDROPOGON sp.

No. G 708. Glumes entire, smooth, glabrous foliage.

## 216188. ANDROPOGON sp.

No. G 714. Smooth foliage, pubescent spikelets. Near *A. cirratus*.

## 216189 to 216196. Between Durango City and Aguascalientes City.

## 216189. ANDROPOGON sp.

No. G 715. Near *A. cirratus*.

## 216190. ANDROPOGON sp.

No. G 716. Pubescent foliage and inflorescence.

## 216191. ANDROPOGON sp.

No. G 721. Near *A. bardinodis*. Plant small.

## 216192. ANDROPOGON sp.

No. G 723. Plant tall; pubescent foliage.

## 216193. ANDROPOGON sp.

No. G 725. Glumes pitted; large type.

## 216194. ANDROPOGON sp.

No. G 726. Plant small, glumes pitted.

## 216195. ANDROPOGON sp.

No. G 727. Plant large, glumes pitted. Near *A. bardinodis*.

## 216196. ANDROPOGON sp.

No. G 736. Pubescent foliage. Near *A. bardinodis*.

## 216197. ANDROPOGON sp.

No. G 842. Between Durango City and Torreon. Glumes pitted.

## 216198. ARISTIDA sp. Poaceae.

No. G 634. Ten miles east of Saltillo, Coahuila.

## 216052 to 217384—Continued

## 216052 to 216663—Continued

216199 to 216211. *BOUTELOUA CHONDROSIODES* (H.B.K.) Benth. Poaceae.

216199. No. G 404. North of Chihuahua City.

216200. No. G 390. North of Chihuahua City.

216201. No. G 434. Between Chihuahua City and Cuauhtemoc.

216202. No. G 441. Between Chihuahua City and Cuauhtemoc.

216203. No. G 491. Between Camargo and Parral, Chihuahua.

216204. No. G 508. State of Durango, between Parral and Durango City.

216205. No. G 516. State of Durango, between Parral and Durango City.

216206. No. G 539. North of Durango City.

216207. No. G 569. South of Durango City.

216208. No. G 719. Between Durango City and Aguascalientes City.

216209 to 216211. Between Durango City and Parral.

216209. No. G 751.

216210. No. G 772.

216211. No. G 784.

216212 to 216296. *BOUTELOUA CURTIPENDULA* (Michx.) Torr.  
Side-oats grama.

216212. No. G 101. Fifteen miles north of Odessa, Tex.

216213. No. G 37. Ten miles north of San Angelo, Tex. Altitude 1,900 feet.

216214 to 216217. Experiment Station, Lubbock, Tex.

216214. No. G 69. Originally from Arizona.

216215. No. G 70. Originally from Arizona.

216216. No. G 71. Originally from Slaton, Tex.

216217. No. G 72. Originally from Dalhart, Tex.

216218. No. G 179. Davis Mountains, Tex. Altitude 6,000 feet.

216219. No. G 223. Between Gallegos and Encinillas, Chihuahua. Altitude 5,600 feet.

216220. No. G 229. Thirty-nine miles north of Chihuahua City. Altitude 4,900 feet. Leaf sheaths glabrous.

216221. No. G 261. Big Bend National Park, Tex. Altitude 5,600 feet.

216222. No. G 305. Southeast of Saltillo, Coahuila. Altitude 5,000 feet.

216223. No. G 321. Fifteen miles north of Saltillo, Coahuila.

216224. No. G 337. Twenty-eight miles south of Del Rio, Tex.

216225. No. G 341. Forty-five miles southeast of Sanderson, Tex.

216226. No. G 345. Animal Disease Investigations Laboratory, Marfa, Tex.

216227. No. G 354. Animal Disease Investigations Laboratory, Marfa, Tex.

## 216052 to 217384—Continued

## 216052 to 216663—Continued

## 216212 to 216296—Continued

## 216228 to 216240. North of Chihuahua City.

216228. No. G 364.

216229. No. G 366.

216230. No. G 374. Plant purple. Dark straw colored spikelets.

216231. No. G 375.

216232. No. G 376. Purple straw.

216233. No. G. 387. Straw colored spikelets.

216234. No. G 397. Intermediate straw, purple colored.

216235. No. G 398. Purple spikelets.

216236. No. G 399. Straw colored spikelets.

216237. No. G 412. Purple type spikelets.

216238. No. G 413. Straw colored spikelets.

216239. No. G 414. Purple straw colored spikelets.

216240. No. G 415. Leaves purple.

## 216241 to 216246. Between Chihuahua city and Cuauhtemoc.

216241. No. G 422.

216244. No. G 433.

216242. No. G 426.

216245. No. G 442.

216243. No. G 431.

216246. No. G 451.

## 216247 to 216249. Between Chihuahua City and Camargo.

216247. No. G 457.

216248. No. G 464.

216249. No. G 471.

## 216250. No. G 480. Between Camargo and Parral, Chihuahua.

## 216251. No. G 490. Between Camargo and Parral, Chihuahua.

## 216252 to 216254. Between Parral and Durango City.

216252. No. G 499.

216253. No. G 506.

216254. No. G 510.

## 216255. No. G 528. North of Durango City.

## 216256. No. G 540. North of Durango City.

## 216257 to 216260. South of Durango City.

216257. No. G 555. Leaves basal, very tender; plants with rhizomes, showing sod-forming tendency.

216258. No. G 562. Strong rhizomes.

216259. No. G 563. Plants tall, drooping; spikes long, slender. Ten or more florets.

216260. No. G 564. Mixture.

## 216261. No. G 582. East of Durango City.

## 216262. No. G 592. East of Durango City.

## 216263. No. G 597. Between Torreon and Bermejillo, Durango.

## 216052 to 217384—Continued

## 216052 to 216663—Continued

## 216212 to 216296—Continued

216264. No. G 600. Between Torreon and Bermejillo, Durango.  
 216265. No. G 614. Between Torreon and Saltillo, Coahuila.  
 216266. No. G 627. Between Saltillo and Arteaga, Coahuila.  
 216267. No. G 635. Ten miles east of Saltillo, Coahuila.  
 216268 to 216270. Fifteen miles east of Saltillo, Coahuila. Altitude 6,000 feet.  
 216268. No. G 639.  
 216269. No. G 642.  
 216270. No. G 646.  
 216271. No. G 663. West of Monterrey, Nuevo Leon. Altitude 1,800 feet.  
 216272. No. G 664. South of Monterrey, Nuevo Leon. Altitude 1,800 feet.  
 216273. No. G 668. South of Monterrey, Nuevo Leon. Altitude 1,800 feet.  
 216274. No. G 686. North of Monterrey, Nuevo Leon.  
 216275 to 216277. Between Torreon and Durango City.  
 216275. No. G 702.  
 216276. No. G 712. Glaucous stiff upright foliage.  
 216277. No. G 713. Low growing type.  
 216278. No. G 718. Between Durango City and Aguascalientes City. Low-growing type, purple foliage; sod forming.  
 216279 to 216285. Between Durango City and Parral.  
 216279. No. G 753. Mixture. 216282. No. G 775.  
 216280. No. G 764. Tall bunch type, straw colored spikelets. 216283. No. G 777.  
 216284. No. G 781.  
 216281. No. G 765. Sod forming. 216285. No. G 787.  
 216286 to 216289. Between Durango City and Mazatlan.  
 216286. No. G 795. 216288. No. G 812.  
 216287. No. G 804. 216289. No. G 814.  
 216290 to 216293. Between Durango City and Torreon.  
 216290. No. G 838. 216292. No. G 850.  
 216291. No. G 845. 216293. No. G 853.  
 216294. No. G 860. Five miles south of Torreon.  
 216295. No. G 861. Five miles south of Torreon.  
 216296. No. XG 114. Twenty-seven miles west of Kerrville, Tex.  
 216297. *BOUTELOUA ERIOPODA* Torr. **Black grama.**  
 No. G 352. Animal Disease Investigations Laboratory, Marfa, Tex.  
 216298. *BOUTELOUA ERIOPODA* Torr. **Black grama.**  
 No. G 408. North of Chihuahua City.



## 216052 to 217384—Continued

## 216052 to 216663—Continued

216299 to 216305. *BOUTELOUA FILIFORMIS* (Fourn.) Griffiths.

Slender grama.

216299 to 216301. North of Durango City.

216299. No. G 527.

216300. No. G 531.

216301. No. G 541.

216302. No. G 561. South of Durango City.

216303. No. G 677. North of Monterrey, Nuevo Leon.

216304. No. G 728. Between Durango City and Aguascalientes City.

216305. No. G 743. Between Durango City and Parral.

216306 to 216344. *BOUTELOUA GRACILIS* (H.B.K.) Lag. Blue grama.

216306. No. G 346. Animal Disease Investigation Laboratory, Marfa, Tex.

216307. No. G 347. Animal Disease Investigation Laboratory, Marfa, Tex.

216308 to 216316. North of Chihuahua City.

216308. No. G 365. 216313. No. G 401.

216309. No. G 373. 216314. No. G 407.

216310. No. G 377. 216315. No. G 409.

216311. No. G 378. 216316. No. G 417.

216312. No. G 391.

216317. No. G 432. Between Chihuahua City and Cuauhtemoc.

216318. No. G 440. Between Chihuahua City and Cuauhtemoc.

216319. No. G 473. Between Chihuahua City and Camargo.

216320. No. G 484. Between Camargo and Parral, Chihuahua.

216321. No. G 492. Between Camargo and Parral, Chihuahua.

216322. No. G 529. North of Durango City.

216323. No. G 549. South of Durango City.

216324. No. G 560. South of Durango City.

216325. No. G 587. East of Durango City.

216326. No. G 650. Fifteen miles east of Saltillo, Coahuila. Altitude 6,000 feet.

216327. No. G 700. Between Torreon and Durango City.

216328. No. G 710. Between Torreon and Durango City.

216329. No. G 724. Between Durango City and Aguascalientes City.

216330 to 216337. Between Durango City and Parral.

216330. No. G 748. 216334. No. G 768.

216331. No. G 752. 216335. No. G 773.

216332. No. G 761. 216336. No. G 779.

216333. No. G 763. Spikes dark purple. 216337. No. G 782.

## 216052 to 217384—Continued

## 216052 to 216663—Continued

## 216306 to 216344—Continued

216338 to 216341. Between Durango City and Mazatlan.

216338. No. G 791. 216340. No. G 810.

216339. No. G 808. 216341. No. G 811.

216342 to 216344. Between Durango City and Torreon.

216342. No. G 839.

216343. No. G 848.

216344. No. G 851.

216345 to 216364. *BOUTELOUA HIRSUTA* Lag. Hairy grama.

216345. No. G 249. South of Alpine, Tex. Altitude 4,800 feet.

216346. No. G 351. Animal Disease Laboratory, Marfa, Tex.

216347 to 216351. North of Chihuahua City.

216347. No. G 370. 216350. No. G 393.

216348. No. G 372. 216351. No. G 394.

216349. No. G 389.

216352. No. G 450. Between Chihuahua City and Cuauhtemoc.

216353. No. G 459. Between Chihuahua City and Camargo.

216354. No. G 509. Between Parral and Durango City.

216355. No. G 625. Buena Vista, near Saltillo, Coahuila.

216356. No. G 709. Between Torreon and Durango City.

216357. No. G 720. Between Durango City and Aguascalientes City.

216358. No. G 744. Between Durango City and Parral.

216359. No. G 767. Between Durango City and Parral.

216360 to 216362. Between Durango City and Mazatlan.

216360. No. G 807.

216361. No. G 815.

216362. No. G 825.

216363. No. 844. Between Durango City and Torreon.

216364. No. 867. King Ranch, Encino, Tex.

216365 to 216367. *BOUTELOUA RADICOSA* (Fourn.) Griffiths. Purple grama.

216365. No. G 570. South of Durango City.

216366. No. G 722. Between Durango City and Aguascalientes City.

216367. No. G 740. Between Durango City and Parral.

216368. *BOUTELOUA UNIFLORA* Vasey.

No. G 657. East of Saltillo, Coahuila. Altitude 5,000 feet.

216369. *BOUTELOUA* sp.No. G 301. Near *B. chondrosioides*. Forty miles east of Monterrey, Nuevo Leon.216370. *BOUTELOUA* sp.No. G 654. Near *B. gracilis*. Fifteen miles east of Saltillo, Coahuila. Altitude 6,000 feet. Tough woody base, large rhizomes, stiff leaf blades.

## 216052 to 217384—Continued

## 216052 to 216663—Continued

216371. *BOUTELOUA* sp.

No. 856. Between Durango City and Torreon.

216372 and 216373. *BUCHLOE DACTYLOIDES* (Nutt.) Engelm. Poaceae.  
Buffalo grass.

216372. No. 41. Ten miles north of San Angelo, Tex. Altitude 1,900 feet.

216373. No. 843. Durango City and Torreon.

216374. *CENCHRUS BIFLORUS* Roxb. Poaceae.

No. G 868. King Ranch, Encino, Tex.

216375 to 216377. *CENCHRUS MYOSUROIDES* H.B.K.

216375. No. G 602. Between Torreon and Saltillo, Coahuila.

216376. No. G 619. Between Torreon and Saltillo, Coahuila.

216377. No. G 707. Between Torreon and Durango City.

216378. *CENCHRUS* sp.

No. G 392. North of Chihuahua City.

216379. *CENCHRUS* sp.

No. G 461. Between Chihuahua City and Camargo.

216380. *CENCHRUS* sp.

No. G 475. Between Chihuahua City and Camargo.

216381. *CENCHRUS* sp.No. G 522. Near *C. myosuroides*. North of Durango City.216382. *CENCHRUS* sp.

No. G 586. East of Durango City.

216383. *CHLORIS CUCULLATA* Bisch. Poaceae.

No. G 869. King Ranch, Encino, Tex. Agressive stolons.

216384. *CHLORIS GAYANA* Kunth. Rhodes grass.

No. G 77. Experiment Station, Lubbock, Tex.

216385. *CHLORIS* sp.

No. G 552. South of Durango City. Spikes reflexed.

216386. *CHLORIS* sp.

No. G 706. Between Torreon and Durango City.

216387. *CHLORIS* sp.

No. G 754. Between Durango City and Parral.

216388. *CHLORIS* sp.

No. G 311. Fifteen miles southeast of Saltillo, Coahuila.

216389. *CHLORIS* sp.

No. G 518. North of Durango City. Stoloniferous.

216390. *DANTHONIA* sp. Poaceae.

No. G 310. Fifteen miles southeast of Saltillo, Coahuila. Altitude 5,000 feet.

216391. *DANTHONIA* sp.

No. G 633. Ten miles east of Saltillo, Coahuila.

**216052 to 217384—Continued****216052 to 216663—Continued**

- 216392.** ELYMUS CANADENSIS L. Poaceae. Canada wildrye.  
No. G 54. Big Spring State Park, Tex. Altitude 2,700 feet.
- 216393 and 216394.** ELYONURUS BARBICULMIS Hack. Poaceae.  
**216393.** No. G 742. Between Durango City and Parral.  
**216394.** No. G 828. High mountains, between Durango City and Mazatlan.
- 216395.** ELYONURUS sp.  
No. G 837. Between Durango City and Mazatlan.
- 216396.** ENNEAPOGON DESVAUXII Beauv. Poaceae. Spike pappusgrass.  
No. G 652. Fifteen miles east of Saltillo, Coahuila. Altitude 6,000 feet.
- 216397.** ERAGROSTIS CHLOROMELAS Steud. Poaceae. Boer lovegrass.  
No. G 76. Experiment Station, Lubbock, Tex.
- 216398 to 216403.** ERAGROSTIS INTERMEDIA Hitchc. Plains lovegrass.  
**216398.** No. G 411. North of Chihuahua City.  
**216399.** No. G 729. Between Durango City and Aguascalientes City.  
**216400.** No. G 746. Between Durango City and Parral.  
**216401.** No. G 793. Between Durango City and Mazatlan.  
**216402.** No. G 817. Between Durango City and Mazatlan.  
**216403.** No. XG 106. Twenty-seven miles west of Kerrville, Kerr County, Tex. Altitude 2,500 feet.
- 216404.** ERAGROSTIS LEHMANNIANA Nees. Lehmann lovegrass.  
No. G 75. Experiment Station, Lubbock, Tex. Originally from S.C.S. collection.
- 216405.** ERAGROSTIS SECUNDIFLORA Presl.  
No. G 876. King Ranch, Encino, Tex.
- 216406.** ERAGROSTIS SPECTABILIS (Pursh) Steud. Purple lovegrass.  
No. G 315. Fifteen miles southeast of Saltillo, Coahuila. Altitude 5,000 feet.
- 216407.** ERAGROSTIS TRICHODES (Nutt.) Wood. Lovegrass.  
No. G 78. Experiment Station, Lubbock, Tex.
- 216408.** ERAGROSTIS sp.  
No. G 421. Between Chihuahua City and Cuauhtemoc.
- 216409.** ERAGROSTIS sp.  
No. G 444. Between Chihuahua City and Cuauhtemoc.
- 216410.** ERAGROSTIS sp.  
No. G 496. Between Camargo and Parral, Chihuahua.
- 216411.** ERAGROSTIS sp.  
No. G 515. Between Parral and Durango City.
- 216412.** ERAGROSTIS sp.  
No. G 542. North of Durango City.
- 216413.** ERAGROSTIS sp.  
No. G 573. South of Durango City.



**216052 to 217384—Continued****216052 to 216663—Continued****216414. ERAGROSTIS sp.**

No. G 622. Between Torreon and Saltillo, Coahuila.

**216415. ERAGROSTIS sp.**

No. G 645. Fifteen miles east of Saltillo, Coahuila. Altitude 6,000 feet.

**216416. ERIOCHLOA sp. Poaceae.**

No. G 467. Between Chihuahua City and Camargo.

**216417 to 216429. HETEROPOGON CONTORTUS (L.) Beauv. Poaceae.  
Tanglehead.**

216417. No. G 384. North of Chihuahua City.

216418. No. G 410. North of Chihuahua City.

216419. No. G 420. Between Chihuahua City and Cuauhtemoc.

216420. No. G 436. Between Chihuahua City and Cuauhtemoc.

216421. No. G 489. Between Camargo and Parral, Chihuahua.

216422. No. G 500. Between Parral and Durango City.

216423. No. G 617. Between Torreon and Saltillo, Coahuila.

216424. No. G 683. North of Monterrey, Nuevo Leon.

216425. No. G 730. Between Durango City and Aguascalientes City.

216426. No. G 788. Between Durango City and Parral.

216427 to 216429. King Ranch, Encino, Tex.

216427. No. G 870.

216428. No. G 873.

216429. No. G 874.

**216430. HETEROPOGON sp.**

No. G 430. Between Chihuahua City and Cuauhtemoc.

**216431. HETEROPOGON sp.**

No. G 813. Between Durango City and Maratlan.

**216432. HETEROPOGON sp.**

No. G 852. Between Durango City and Torreon.

**216433. HILARIA BELANGERI (Steud.) Nash. Poaceae. Curly mesquite.**

No. G 40. Ten miles north of San Angelo, Tex. Altitude 1,900 feet.

**216434 to 216437. HILARIA MUTICA (Buckl.) Benth. Tobosa grass.**

216434. No. G 42. Ten miles north of San Angelo, Tex. Altitude 1,900 feet.

216435. No. G 258. Big Bend National Park, Tex. Altitude 5,600 feet.

216436. No. G 465. Between Chihuahua City and Camargo.

216437. No. G 479. Between Camargo and Parral, Chihuahua.

**216438 to 216445. HILARIA SWALLENII Cory.**

216438. No. G 350. Animal Disease Investigation Laboratory, Marfa, Tex. Early seed production.

216439. No. G 379. North of Chihuahua City.

216440. No. G 400. North of Chihuahua City.

216441. No. G 521. North of Durango City.

## 216052 to 217384—Continued

## 216052 to 216663—Continued

## 216438 to 216445—Continued

216442. No. G 757. Between Durango City and Parral.

216443. No. G 771. Between Durango City and Parral.

216444. No. G 803. Between Durango City and Mazatlan.

216445. No. G 821. Between Durango City and Mazatlan.

216446. *HILARIA* sp.

No. G 859. Five miles south of Torreon.

216447 to 216476. *LEPTOCHLOA DUBIA* (H.B.K.) Nees. Poaceae.  
Green sprangletop.

216447. No. G 248. Two miles south of Alpine, Tex. Altitude 4,800 feet.

216448. No. G 304. Southeast of Saltillo, Coahuila. Altitude 5,000 feet.

216449. No. G 342. Twenty-five miles east of Marathon, Tex.

216450. No. G 386. North of Chihuahua City.

216451 to 216454. Between Chihuahua City and Cuauhtemoc.

216451. No. G 424. 216453. No. G 439.

216452. No. G 428. 216454. No. G 446.

216455. No. G 476. Between Chihuahua City and Camargo.

216456. No. G 483. Between Camargo and Parral, Chihuahua.

216457. No. G 494. Between Camargo and Parral, Chihuahua.

216458. No. G 517. Between Parral and Durango City.

216459. No. G 523. North of Durango City.

216460. No. G 532. North of Durango City.

216461 to 216464. South of Durango City.

216461. No. G 556. 216463. No. G 574.

216462. No. G 568. 216464. No. G 577.

216465. No. G 589. East of Durango City.

216466. No. G 624. Between Torreon and Saltillo, Coahuila.

216467. No. G 629. Between Saltillo and Arteaga, Coahuila.

216468. No. G 632. Ten miles east of Saltillo, Coahuila.

216469. No. G 649. Fifteen miles east of Saltillo, Coahuila. Altitude 6,000 feet.

216470. No. G 659. East of Saltillo, Coahuila. Altitude 5,000 feet.

216471. No. G 662. West of Monterrey, Nuevo Leon. Altitude 1,800 feet.

216472. No. G 684. North of Monterrey, Nuevo Leon.

216473. No. G 732. Between Durango City and Aguascalientes City.

216474. No. G 766. Between Durango City and Parral.

216475. No. G 778. Between Durango City and Parral.

216476. No. XG 110. Twenty-seven miles north of Kerrville, Kerr County, Tex.

216477. *LEPTOCHLOA* sp.

No. G 704. Between Torreon and Durango City.

## 216052 to 217384—Continued

## 216052 to 216663—Continued

216478. *LEPTOCHLOA* sp.

No. G 798. Between Durango City and Mazatlan.

216479. *MUHLENBERGIA ARENACEA* (Buckl.) Hitchc. Poaceae.

No. G 39. Ten miles north of San Angelo, Tex. Altitude 1,900 feet.

216480 and 216481. *MUHLENBERGIA PORTERI* Scribn.

216480. No. G 314. Fifteen miles southeast of Saltillo, Coahuila. Altitude 5,000 feet.

216481. No. G 862. Five miles south of Torreon, Coahuila.

216482. *MUHLENBERGIA TORREYI* (Kunth.) Hitchc.

Ringgrass.

No. G 317. Fifteen miles southeast of Saltillo, Coahuila. Altitude 5,000 feet.

216483. *MUHLENBERGIA WRIGHTII* Vasey.

No. G 319. Fifteen miles southeast of Saltillo, Coahuila. Altitude 5,000 feet.

216484. *MUHLENBERGIA* sp.

No. G 308. Fifteen miles southeast of Saltillo, Coahuila. Altitude 5,000 feet.

216485. *MUHLENBERGIA* sp.

No. G 448. Between Chihuahua City and Cuauhtemoc.

216486. *MUHLENBERGIA* sp.

No. G 452. Between Chihuahua City and Cuauhtemoc.

216487. *MUHLENBERGIA* sp.

No. G 644. Fifteen miles east of Saltillo, Coahuila. Altitude 6,000 feet. Loose purple panicle.

216488. *MUHLENBERGIA* sp.

No. G 731. Between Durango City and Aguascalientes City.

216489. *MUHLENBERGIA* sp.

No. G 755. Between Durango City and Parral.

216490. *MUHLENBERGIA* sp.

No. G 762. Between Durango City and Parral.

216491. *MUHLENBERGIA* sp.

No. G 797. Between Durango City and Mazatlan.

216492. *MUHLENBERGIA* sp.

No. G 799. Between Durango City and Mazatlan.

216493. *MUHLENBERGIA* sp.

No. G 809. Between Durango City and Mazatlan.

216494. *MUHLENBERGIA* sp.

No. G 836. Between Durango City and Mazatlan.

216495. *ORYZOPSIS* sp. Poaceae.

No. G 831. Between Durango City and Mazatlan.

## 216052 to 217384—Continued

## 216052 to 216663—Continued

216496 to 216498. *PANICUM BULBOSUM* H.B.K. Poaceae. **Bulb panicum.**

216496. No. G 176A. Davis Mountains, Tex. Altitude 6,000 feet.

216497. No. G 525. North of Durango City.

216498. No. G 653. Fifteen miles east of Saltillo, Coahuila. Altitude 6,000 feet.

216499 to 216503. *PANICUM HALLII* Vasey. **Hall's panicum.**

216499. No. G 38. Ten miles north of San Angelo, Tex.

216500. No. G 74. Originally from 4 miles south of Post. Collected from agronomy nursery, Agricultural Experiment Station, Lubbock, Tex.

216501. No. G 208. Five miles north of Shafter, Tex.

216502. No. G 358. North of Chihuahua City.

216503. No. G 383. North of Chihuahua City.

216504 to 216517. *PANICUM OBTUSUM* H.B.K. **Vine-mesquite.**

216504. No. G 228. Twenty-three miles north of Chihuahua City. Altitude 4,900 feet.

216505. No. G 348. Animal Disease Investigation Laboratory, Marfa, Tex.

216506. No. G 368. North of Chihuahua City, Chihuahua.

216507. No. G 396. North of Chihuahua City.

216508. No. G 463. Between Chihuahua City and Camargo.

216509. No. G 520. North of Durango City.

216510. No. G 548. Durango City.

216511. No. G 550. South of Durango City.

216512. No. G 583. East of Durango City.

216513. No. G 595. Between Torreon and Bermejillo, Durango.

216514. No. G 610. Between Torreon and Saltillo, Coahuila.

216515. No. G 612. Between Torreon and Saltillo, Coahuila.

216516. No. G 628. Between Saltillo and Arteaga, Coahuila.

216517. No. XG 109. Twenty-seven miles north of Kerrville, Kerr County, Tex. Altitude 2,500 feet.

216518. *PANICUM VIRGATUM* L. **Switch grass.**

No. G 300. Twenty miles north of Raymondville, Tex. Decumbent forms.

216519. *PANICUM* sp.

No. G 330. Near *P. hallii*. Ten miles south of Nueva Rosita, Coahuila.

216520. *PANICUM* sp.

No. G 357. North of Chihuahua City.

216521. *PANICUM* sp.

No. G 449. Between Chihuahua City and Cuauhtemec.

216522. *PANICUM* sp.

No. G 502. Between Parral and Durango City. Similar to *P. bulbosum*.



## 216052 to 217384—Continued

## 216052 to 216663—Continued

216523. *PANICUM* sp.

No. G 672. East of Monterrey, Nuevo Leon.

216524. *PANICUM* sp.

No. G 688. North of Monterrey, Nuevo Leon.

216525 to 216531. *PAPPOPHORUM BICOLOR* Fourn. Poaceae.216525. No. G 302. Forty miles west of Monterrey, Nuevo Leon.  
*Setaria* sp. association.

216526. No. G 326. Ten miles north of Monclova, Coahuila.

216527. No. G 329. Ten miles south of Nueva Rosita, Coahuila.

216528. No. G 331. One mile northwest of Eagle Pass, Tex.

216529. No. G 599. Between Torreon and Bermejillo.

216530. No. G 607. Between Torreon and Saltillo, Coahuila. Growing  
in area completely cleared of other perennial grasses.

216531. No. G 678. North of Monterrey, Nuevo Leon.

216532 to 216537. *PAPPOPHORUM MUCRONULATUM* Nees.

216532. No. G 323. Ten miles north of Monclova, Coahuila.

216533. No. G 339. Forty-five miles southeast of Sanderson, Tex.

216534. No. G 469. Between Chihuahua City and Camargo.

216535. No. G 593. Between Torreon and Bermejillo.

216536. No. G 613. Between Torreon and Saltillo, Coahuila.

216537. No. G 658. East of Saltillo, Coahuila.

216538. *PASPALUM DILATATUM* Poir. Poaceae.

Dallis grass.

No. G 79. From Experiment Station, Lubbock, Tex. Local type.  
Apparently ergot free.216539. *PASPALUM* sp.

No. G 511. Between Parral and Durango City.

216540 and 216541. *PIPTOCHAETIUM FIMBRIATUM* (H.B.K.) Hitchc.  
Poaceae.

Pinyon ricegrass.

216540. No. G 641. Fifteen miles east of Saltillo, Coahuila.  
Altitude 6,000 feet.216541. No. G 647. Fifteen miles east of Saltillo, Coahuila. Altitude  
6,000 feet.216542. *PIPTOCHAETIUM* sp.

No. G 829. Between Durango City and Mazatlán.

216543. *PIPTOCHAETIUM* sp.

No. G 830. Between Durango City and Mazatlán.

216544. *SETARIA GENICULATA* (Lam.) Beauv. Poaceae.

Knotroot bristlegrass.

No. G 567. South of Durango City.

216545 and 216546. *SETARIA GRISEBACHII* Fourn.

Grisebach bristlegrass.

216545. No. G 173. Davis Mountains, Tex. Altitude 6,000 feet.

216546. No. G 526. North of Durango City.

## 216052 to 217384—Continued

## 216052 to 216663—Continued

216547 to 216568. *SETARIA MACROSTACHYA* H.B.K. Plains bristlegrass.

216547. No. G 55. Big Spring State Park, Tex. Altitude 2,700 feet.

216548. No. G 222. Between Gallegos and Encinillos, Chihuahua. Altitude 5,600 feet.

216549. No. G 227. Thirty-seven miles north of Chihuahua City. Altitude 4,900 feet.

216550. No. G 247. Two miles south of Alpine, Tex. Altitude 4,800 feet.

216551. No. G 260. Big Bend National Park, Tex. Altitude 5,600 feet.

216552. No. G 306. Southeast of Saltillo, Coahuila. Altitude 5,000 feet.

216553. No. G 327. Ten miles north of Monclova, Coahuila.

216554. No. G 344. Twenty-five miles east of Marathon, Tex.

216555 to 216558. North of Chihuahua City.

216555. No. G 361.

216557. No. G 416.

216556. No. G 381.

216558. No. G 418.

216559. No. G 468. Between Chihuahua City and Camargo.

216560. No. G 474. Between Chihuahua City and Camargo.

216561. No. G 482. Between Camargo and Parral, Chihuahua.

216562. No. G 485. Between Camargo and Parral, Chihuahua.

216563. No. G 596. Between Torreon and Bermejillo, Durango.

216564. No. G 606. Between Torreon and Saltillo, Coahuila.

216565. No. G 618. Between Torreon and Saltillo, Coahuila.

216566. No. G 651. Fifteen miles east of Saltillo, Coahuila. Altitude 6,000 feet.

216567. No. G 673. North of Monterrey, Nuevo Leon.

216568. No. G 675. North of Monterrey, Nuevo Leon.

216569. *SETARIA* sp.

No. G 318. Fifteen miles southeast of Saltillo, Coahuila. Altitude 5,000 feet.

216570. *SETARIA* sp.

No. G 453. Between Chihuahua City and Cuauhtemoc.

216571. *SETARIA* sp.

No. G 544. North of Durango City.

216572. *SETARIA* sp.

No. G 553. South of Durango City.

216573. *SETARIA* sp.

No. G 591. East of Durango City.

216574. *SETARIA* sp.

No. G 603. Between Torreon and Saltillo, Coahuila.

216575. *SETARIA* sp.

No. G 616. Between Torreon and Saltillo, Coahuila.

## 216052 to 217384—Continued

## 216052 to 216663—Continued

## 216576. SETARIA sp.

No. G 620. Between Torreon and Saltillo, Coahuila.

## 216577. SETARIA sp.

No. G 676. North of Monterrey, Nuevo Leon.

## 216578. SETARIA sp.

No. G 681. North of Monterrey, Nuevo Leon.

## 216579. SETARIA sp.

No. G 857. Between Durango City and Torreon.

## 216580. SETARIA sp.

No. G 858. Five miles north of Torreon.

## 216581. SORGHASTRUM NUTANS (L.) Nash. Poaceae. Indian grass.

No. XG 113. Twenty-seven miles north of Kerrville, Kerr County, Tex. Altitude 2,500 feet.

## 216582. SPOROBOLUS AIROIDES Torr. Poaceae. Alkali sacaton.

No. G 355. North of Chihuahua City.

## 216583. SPOROBOLUS ASPER (Michx.) Kunth.

No. XG 107. Twenty-seven miles west of Kerrville, Kerr County, Tex. Altitude 2,500 feet.

## 216584. SPOROBOLUS GIGANTEUS Nash. Giant dropseed.

No. G 356. North of Chihuahua City.

## 216585. SPOROBOLUS WRIGHTII Munro. Sacaton.

No. G 863. Five miles south of Torreon.

## 216586. SPOROBOLUS sp.

No. G 551. South of Durango City.

## 216587. SPOROBOLUS sp.

No. G 605. Between Torreon and Saltillo, Coahuila.

## 216588. SPOROBOLUS sp.

No. G 819. Between Durango City and Mazatlan.

## 216589. STIPA NEOMEXICANA (Thurb.) Scribn. Poaceae. New Mexico feathergrass.

No. G 648. Fifteen miles east of Saltillo, Coahuila. Altitude 6,000 feet.

## 216590. STIPA sp.

No. G 313. Fifteen miles southeast of Saltillo, Coahuila. Altitude 5,000 feet.

## 216591. STIPA sp.

No. G 558. Near *S. eminens*. South of Durango City. Lemma dark.

## 216592. STIPA sp.

No. G 623. Between Torreon and Saltillo, Coahuila.

## 216593 to 216596. Ten miles east of Saltillo, Coahuila.

## 216593. STIPA sp.

No. G 630. Yellow inflorescence, small spikelet type.

**216052 to 217384—Continued****216052 to 216663—Continued****216593 to 216596—Continued**

216594. STIPA sp.

No. G 631.

216595. STIPA sp.

No. G 636. Very short awn, dense panicle.

216596. STIPA sp.

No. G 637. Awn short, floret small, panicle loose.

216597. STIPA sp.

No. G 638. Fifteen miles east of Saltillo, Coahuila. Plant tall. Altitude 6,000 feet.

216598. STIPA sp.

No. G 643. Fifteen miles east of Saltillo, Coahuila. Plant tall, awn intermediate, loose panicle.

216599. STIPA sp.

No. G 701. Between Durango City and Torreon.

216600. STIPA sp.

No. G 794. Between Durango City and Mazatlan.

216601 and 216602. TRACHYPOGON MONTUFARI (H.B.K.) Nees. Poaceae.

216601. No. G 737. Between Durango City and Aguascalientes City.

216602. No. G 750. Between Durango City and Parral.

216603. TRACHYPOGON SECUNDUS (Presl) Scribn. **Crinkle-awn.**

No. G 443. Between Chihuahua City and Cuauhtemoc.

216604. TRACHYPOGON sp.

No. G 405. North of Chihuahua City.

216605. TRACHYPOGON sp.

No. G 427. Between Chihuahua City and Cuauhtemoc.

216606. TRACHYPOGON sp.

No. G 497. Between Parral and Durango City.

216607. TRACHYPOGON sp.

No. G 501. Between Parral and Durango City.

216608. TRACHYPOGON sp.

No. G 534. North of Durango City.

216609. TRACHYPOGON sp.

No. G 546. North of Durango City.

216610. TRACHYPOGON sp.

No. G 827. Between Durango City and Mazatlan.

216611. TRACHYPOGON sp.

No. G 834. Between Durango City and Mazatlan.

216612 to 216648. TRICHACHNE CALIFORNICA (Benth.) Chase. Poaceae. **Cottontop.**

216612. No. G 80. Experiment Station, Lubbock, Tex.

216613. No. G 221. 108 miles south of Jaurez, Chihuahua.



## 216052 to 217384—Continued

## 216052 to 216663—Continued

## 216612 to 216648—Continued

216614. No. G 224. Between Gellegos and Encinillas, Chihuahua. Altitude 5,600 feet.

216615. No. G 225. Ten miles north of Chihuahua City. Altitude 4,500 feet.

216616. No. G 259. Basin, Big Bend National Park, Tex. Altitude 5,600 feet.

216617. No. G 307. Fifteen miles southeast of Saltillo, Coahuila. Altitude 5,000 feet.

216618. No. G 320. Fifteen miles north of Saltillo, Coahuila.

216619. No. G 324. Ten miles north of Monclova, Coahuila.

216620. No. G 336. Thirty miles southeast of Del Rio, Tex.

216621 to 216627. North of Chihuahua City.

216621. No. G 360. 216625. No. G 382.

216622. No. G 363. 216626. No. G 388.

216623. No. G 367. 216627. No. G 395.

216624. No. G 371.

216628. No. G 425. Between Chihuahua City and Cuauhtemoc.

216629. No. G 437. Between Chihuahua City and Cuauhtemoc.

216630. No. G 447. Between Chihuahua City and Cuauhtemoc.

216631. No. G 458. Between Chihuahua City and Camargo.

216632. No. G 472. Between Chihuahua City and Camargo.

216633. No. G 486. Between Camargo and Parral.

216634. No. G 487. Between Camargo and Parral.

216635. No. G 495. Between Camargo and Parral.

216636. No. G 507. Between Parral and Durango City.

216637. No. G 533. North of Durango City.

216638. No. G 590. East of Durango City.

216639. No. G 604. Between Torreon and Saltillo, Coahuila.

216640. No. G 609. Between Torreon and Saltillo, Coahuila.

216641. No. G 615. Between Torreon and Saltillo, Coahuila.

216642. No. G 665. South of Monterrey, Nuevo Leon.

216643. No. G 671. East of Monterrey, Nuevo Leon.

216644. No. G 682. North of Monterrey, Nuevo Leon.

216645. No. G 733. Between Durango City and Aguascalientes City.

216646. No. G 783. Between Durango City and Parral.

216647. No. G 802. Between Durango City and Mazatlan.

216648. No. G 855. Between Durango City and Torreon. Desert type.

216649. *TRICHACHNE INSULARIS* (L.) Nees. **Sourgrass.**  
G 576. South of Durango City.

216650. *TRICHACHNE* sp.

G 667. South of Monterrey, Nuevo Leon. Altitude 1,800 feet. Plant very pubescent, short rhizomatous; spikelets brown.

## 216052 to 217384—Continued

## 216052 to 216663—Continued

216651. *TRICHACHNE* sp.

G 739. Between Durango City and Aguascalientes City.

216652 to 216654. *TRICHLORIS CRINITA* (Lag.) Parodi. Poaceae.

216652. G 325. Ten miles north of Monclova, Coahuila.

216653. G 334. Thirty-four miles southeast of Del Rio, Tex.

216654. G 601. Between Torreon and Bermejillo, Durango.

216655. *TRICHLORIS MENDOCINA* (Phil.) Kurtz.

G 608. Between Saltillo and Torreon, Coahuila.

216656. *TRICHLORIS* sp.

G 478. One mile southeast of Camargo, Chihuahua.

216657. *TRIDENS MUTICUS* (Torr.) Nash. Poaceae. Slim tridens.

G 332. One mile northwest of Eagle Pass, Tex.

216658. *TRIDENS* sp.

G 316. Fifteen miles southeast of Saltillo, Coahuila. Altitude 5,000 feet.

216659. *TRIPSACUM LANCEOLATUM* Rupr. Poaceae. Mexican gamagrass.

G 545. North of Durango City. Small form, 4 feet tall.

216660. *TRIPSACUM* sp.

G 735. Between Durango City and Aguascalientes City.

216661. (Undetermined.)

G 826. Between Durango City and Mazatlan. Poaceae.

216662. (Undetermined.)

G 832. Between Durango City and Mazatlan. Poaceae.

216663. *VASEYOCHLOA MULTINERVOSA* (Vasey) Hitchc. Poaceae.

G 875. Encino Division, King Ranch, Encino, Tex.

216664 to 217341. Clones of grass species.

216664. *AGROPYRON CRISTATUM* (L.) Gaertn. Poaceae. Crested wheatgrass.

No. 1. Amarillo Experiment Station, Amarillo, Tex. Altitude 3,800 feet.

216665. *AGROPYRON SMITHII* Rydb. Western wheatgrass.

XG 60. One mile west of Saunders, Ariz.

216666 to 216686. *ANDROPOGON BARDINODIS* Lag. Poaceae.

216666 to 216681. Texas.

216666. G 26. Sonora. Altitude 2,600 feet.

216667. G 30. Sonora. Altitude 2,600 feet.

216668. G 165. Thirty miles west of Fort Davis. Altitude 5,000 feet.

216669. G 187. Limpia Canyon, near Fort Davis. Altitude 5,250 feet.

216670. G 201. McDonald Observatory, near top of Locke Mountain, Davis Mountains. Altitude 6,770 feet.

216671. G 211. Three miles south of Marfa. Altitude 4,700 feet.

**216052 to 217384—Continued****216664 to 217341—Continued****216666 to 216686—Continued****216666 to 216681—Continued**

216672. G 238. Twelve miles northwest of Alpine. Altitude 4,800 feet. Near Mitre Peak.
216673. G 217. Twenty-five miles south of Marfa. Altitude 6,000 feet.
216674. G 244. Two miles south of Alpine. Altitude 4,800 feet.
216675. G 264. Big Bend National Park. Altitude 5,300 feet.
216676. G 275. Big Bend National Park. Altitude 5,200 feet.
216677. XG 1. Seven miles north of Sonora on Tom Davis Ranch. Altitude 2,400 feet.
216678. XG 7. Eight miles west of Dryden. Altitude 2,500 feet.
216679. XG 16. Three miles north of Eldorado. Altitude 2,000 feet.
216680. XG 26. Fifteen miles north of San Angelo on Bronte Highway. Altitude 1,800 feet.
216681. XG 50. Thirty miles southwest of Dalhart on railway right-of-way. Altitude 4,500 feet.
216682. XG 65. Fifteen miles west of Springerville, Ariz. Altitude 6,000 feet.
216683. XG 70. Ten miles southwest of Socorro, N. Mex. Altitude 4,800 feet.
216684. XG 77. Twenty miles west of Tatum, N. Mex. Altitude 3,500 feet.
216685. XG 104. Ranch Experiment Station, Edwards County, Tex. Altitude 2,600 feet.
216686. Anthony 5. Marfa Experiment Station, 3 miles northeast of Marfa, Tex. Altitude 4,900 feet.
- 216687 and 216688. *ANDROPOGON CIRRATUS* Hack. **Texas beardgrass.** Texas.
216687. G 178A. Davis Mountains. Altitude 6,000 feet.
216688. G 200. McDonald Observatory, Locke Mountain, Davis Mountains. Altitude 6,770 feet.
216689. *ANDROPOGON EDWARDSIANUS* Gould. **Poaceae.**
- XG 25. Fifteen miles northeast of Eldorado, Tex. Altitude 2,300 feet.
- 216690 to 216695. *ANDROPOGON GERARDII* Vitman. **Big bluestem.** Texas.
216696. G 64. McKenzie State Park, Lubbock.
216691. G 82. Agronomy Nursery, Lubbock. Originally from Slaton.
216692. G 142. Kennedy Ranch, Davis Mountains, near Marfa. Altitude 5,600 feet.
216693. G 175. Davis Mountains. Altitude 6,000 feet.
216694. H-V 147. Thomas Estate, 4 miles north of Throckmorton.
216695. XG 21. Fifteen miles northeast of Eldorado. Altitude 2,300 feet.



## 216052 to 217384—Continued

## 216664 to 217341—Continued

216696 to 216700. *ANDROPOGON HALLII* Hack. Sand bluestem.  
Texas.

216696. G 83. Agronomy Nursery, Lubbock. Originally from Littlefield.

216697. G 87. Fifteen miles north of Littlefield. Altitude 3,350 feet.

216698. G 94. Fifteen miles north of Littlefield. Altitude 3,350 feet.

216699. H-V 334. Eight miles west of Benjamin.

216700. H-V 344. George Studs Farm, 1 mile north of Knox City.

216701. *ANDROPOGON INTERMEDIUS* R. Br.

XG 103. Ranch Experiment Station, Edwards County, Tex. Altitude 2,600 feet.

216702 to 216704. *BOTHRIOCHLOA ISCHAEMUM* (L.) Keng.

Texas.

216702. G 34. Sonora. Altitude 2,600 feet.

216703. G 36. Sonora. Altitude 2,600 feet.

216704. XG 102. Ranch Experiment Station, Edwards County. Altitude 2,600 feet.

216705 to 216709. *ANDROPOGON LITTORALIS* Nash.

Texas.

216705. G 6. Santa Fe Ranch, near Encino.

216706. G 7. Santa Fe Ranch, near Encino.

216707. G 8. Santa Fe Ranch, near Encino.

216708. G 20. Experimental pastures, Encino Division, King Ranch, Encino.

216709. G 21. Experimental pastures, Encino Division, King Ranch, Encino.

216710 to 216727. *ANDROPOGON SACCHAROIDES* Swartz. Silver beardgrass.

216710 to 216726. Texas.

216710. G 282. Nineteen miles south of Marathon. Altitude 3,600 feet.

216711. G 283. Nineteen miles south of Marathon. Altitude 3,600 feet. Leaves pubescent.

216712. G 284. Nineteen miles south of Marathon. Altitude 3,600 feet. Nodes glabrous.

216713. G 288. Five miles south of Marathon. Altitude 3,600 feet. Foliage red. Plant large.

216714. H-V 67. Wayland Cemetery, southern Stephens County. Plant makes good growth with late summer rainfall.

216715. H-V 130. Possum Kingdom Lake, northeastern Stephens County. Withstanding severe drought.

216716. H-V 137. Thomas Estate, 4 miles north of Throckmorton.

216717. H-V 182. Lowe Stout Ranch, southern Baylor County.

216718. H-V 207. I. M. Higgins Ranch, 9 miles south of Seymour.

216719. H-V 242. Mill-Iron Ranch, LaFayette-Hughes Estate, Cottle County.



## 216052 to 217384—Continued

## 216664 to 217341—Continued

## 216710 to 216727—Continued

216720. H-V 273. Four 6's Ranch, southwest of Guthrie, King County.
216721. H-V 299. Flowers Ranch, 5 miles southeast of Aspermont.
216722. H-V 314. Joy Pumphrey Ranch, 3 miles north of Old Glory.
216723. H-V. 329. Eight miles west of Benjamin. Short, leafy plant, blue green in color.
216724. H-V 357. Twenty-five miles southeast of Haskell.
216725. H-V 414. Abilene State Park, southwest of Abilene.
216726. H-V 425. Two miles north of Goldthwaite.
216727. XG 67. Sixteen miles southwest of Springerville, Ariz. Altitude 6,200 feet.
- 216728 to 216792. ANDROPOGON SCOPARIUS Michx. Little bluestem.
- 216728 to 216790. Texas.
216728. G 57. Big Spring State Park. Altitude 2,600 feet.
216729. G 89. Fifteen miles north of Littlefield. Altitude 3,350 feet. Broadleaf.
216730. G 90. Fifteen miles north of Littlefield. Altitude 3,350 feet. Narrow-leaf.
216731. G 98. Twenty-three miles south of Morton.
216732. G 100. Twenty-eight miles south of Morton.
216733. G 137. Kennedy Ranch, Davis Mountains, near Marfa. Altitude 5,500 feet.
216734. G 192. Limpia Canyon, near Fort Davis. Altitude 5,250 feet. Rhizomatous.
216735. G 63. McKenzie State Park, Lubbock.
216736. H-V 8. Ten miles north of Stephenville.
- 216737 to 216743. Jewel Ramage Farm, southern Erath County.
216737. H-V 22. 216741. H-V 27.
216738. H-V 23. 216742. H-V 33.
216739. H-V 24. 216743. H-V 37.
216740. H-V 25.
216744. H-V 50. On native range 14 miles north of Stephenville. Very fine leaves and stems.
216745. H-V 51. On native range 14 miles north of Stephenville. Medium fine leaves and stems.
216746. H-V 52. On native range 14 miles north of Stephenville. Long leaves.
216747. H-V 68. Wayland Cemetery, southern Stephens County. Plant tall, upright.
216748. H-V 69. Wayland Cemetery, southern Stephens County. Plant fine, leafy.
216749. H-V 70. Wayland Cemetery, southern Stephens County. Late, leafy type.
216750. H-V 98. Merrick Davis Ranch, 6 miles west of Albany. Upright, light green in color.

## 216052 to 217384—Continued

## 216664 to 217341—Continued

## 216728 to 216792—Continued

## 216728 to 216790—Continued

216751. H-V 99. Merrick Davis Ranch, 6 miles west of Albany. Short, leafy type.
216752. H-V 131. Possom Kingdom Lake, northeastern Stephens County.
216753. H-V 132. Possom Kingdom Lake, northeastern Stephens County.
216754. H-V 150. Ten miles southeast of Throckmorton. Upright, medium leafy plant recovering from drought.
216755. H-V 152. Ten miles southeast of Throckmorton. Straight, upright plant.
216756. H-V 165. Seven miles north of Clifton, Bosque County. Vigorous growing plant.
216757. H-V 168. Sixteen miles north of Meridian.
216758. H-V 170. Three miles north of DeLeon. Short, leafy plant.
216759. H-V 171. Three miles north of DeLeon. Tall, upright plant.
216760. H-V 215. J. S. Criswell Ranch, 9 miles south of Seymour.
216761. H-V 225. Ten miles west of Crowell.
216762. H-V 229. Ten miles west of Crowell. Very fine leafed plant.
- 216763 to 216766. Mill-Iron Ranch, LaFayette-Hughes Estate, Cottle County.
216763. H-V 243.
216764. H-V 248. Tall straight, fine-stemmed plant.
216765. H-V 252. Very broad leafed plant.
216766. H-V 254. Large stems and broad leaves.
216767. H-V 265. Milles Wells Ranch, 8 miles north of Paducah.
216768. H-V 285. Thirteen miles north of Aspermont.
216769. H-V 293. Thirteen miles north of Aspermont. Short, leafy plant making excellent growth.
216770. H-V 300. Flowers Ranch, 5 miles southeast of Aspermont.
216771. H-V 317. Two miles west of Aspermont.
216772. H-V 318. Two miles west of Aspermont. Coarse leaves, good recovery from drouth.
216773. H-V 319. Two miles west of Aspermont. Leaves fine.
216774. H-V 330. Eight miles west of Benjamin. Short, leafy plant, bright green in color.
216775. H-V 331. Eight miles west of Benjamin. Tall, coarse plant, blue green in color.
216776. H-V 362. Twenty-five miles southwest of Haskell on Flat Top Ranch. Vigorous plant.
216777. H-V 363. Twenty-five miles southwest of Haskell on Flat Top Ranch. Straight, upright plant.

**216052 to 217384—Continued****216664 to 217341—Continued****216728 to 216792—Continued****216728 to 216790—Continued**

- 216778 to 216781. Nine miles east and 3 miles north of Anson.
216778. H-V 377. Very coarse, broad leaves and stems.
216779. H-V 378. Short, leafy plant.
216780. H-V 379. Tall, coarse plant.
216781. H-V 381.
216782. H-V 400. Ten miles south of Anson.
216783. H-V 401. Ten miles south of Anson.
216784. H-V 402. Abilene State Park, southwest of Abilene.
216785. H-V 420. Twenty-two miles north of Coleman.
216786. H-V 422. Ten miles north of Coleman.
216787. H-V 424. Ten miles north of Mullin. Short, leafy plant.
216788. XG 20. Six miles northeast of Eldorado. Altitude 2,100 feet.
216789. XG 31. Fifteen miles south of Sweetwater. Altitude 2,100 feet.
216790. XG 51. Thirty miles southwest of Dalhart. Altitude 4,500 feet.
216791. XG 68. Fifteen miles northwest of Springerville, Ariz. Altitude 6,000 feet.
216792. XG 92. Five miles from Barksdale, Tex.
- 216793 to 216805. From Texas.**
216793. ANDROPOGON sp.
- G 88. Fifteen miles north of Littlefield. Altitude 3,350 feet.
216794. ANDROPOGON sp.
- G 110. Ten miles north of Fort Stockton.
216795. ANDROPOGON sp.
- G 135. Near *A. scoparius*; Kennedy Ranch, Davis Mountains, near Marfa. Altitude 550 feet. Dwarf type.
216796. ANDROPOGON sp.
- G 163. Spur Ranch. Twenty-five miles south of Marfa. Altitude 4,500 feet.
216797. ANDROPOGON sp.
- H-V 298. Flowers Ranch, 5 miles southeast of Aspermont.
216798. ANDROPOGON sp.
- XG 36. Ten miles south of Post. Altitude 2,400 feet.
216799. ANDROPOGON sp.
- Anthony—11. Kennedy Ranch, about 12 miles northeast of Marfa. Altitude 5,000 feet.
216800. ANDROPOGON sp.
- H-V 16. T & P Railroad Company rangeland in north Erath County.



## 216052 to 217384—Continued

## 216664 to 217341—Continued

## 216793 to 216805—Continued

216801. *ANDROPOGON* sp.

H-V 26. Jewel Ramage Farm, southern Erath County.

216802. *ANDROPOGON* sp.

H-V 29. Jewel Ramage Farm, southern Erath County.

216803. *ANDROPOGON* sp.

H-V 36. Jewel Ramage Farm, southern Erath County.

216804. *ANDROPOGON* sp.

H-V 44. On native range 14 miles north of Stephenville.

216805. *ANDROPOGON* sp.

H-V 240. Mill-Iron Ranch, LaFayette-Hughes Estate, Cottle County.

216806. *ARISTIDA WRIGHTII* Nash. Poaceae.

G 29. Sonora, Tex. Altitude 2,600 feet.

216807 and 216808. *BOUTELOUA BREVISETA* Vasey. Poaceae.

216807. G 254. Fourteen miles north of Terlingua, Tex. Altitude 2,800 feet.

216808. G 277. Big Bend National Park, Tex. Altitude 3,000 feet.

216809. *BOUTELOUA CHONDROSIODES* (H.B.K.) Benth. Poaceae.

G 242. Two miles south of Alpine, Tex. Altitude 4,800 feet.

216810 to 216906. *BOUTELOUA CURTIPENDULA* (Michx.) Torr. Poaceae.  
Side-oats grama.

216810 to 216899. Texas.

216810. G 237. Twelve miles northwest of Alpine. Altitude 4,800 feet.

216811. G 25. Sonora. Altitude 2,600 feet.

216812. G 32. Sonora. Altitude 2,600 feet.

216813. G 53. Ten miles northeast of Big Spring. Altitude 2,500 feet.

216814. G 66. McKenzie State Park, Lubbock.

216815. G 93. Fifteen miles north of Littlefield. Altitude 3,350 feet.

216816. G 97. Twenty-three miles south of Morton.

216817. G 112. Five miles south of Fort Stockton.

216818. G 119. Five miles south of Fort Stockton. Stoloniferous.

216819. G 136. Kennedy Ranch, Davis Mountains, near Marfa. Altitude 5,500 feet. Leaves purple.

216820. G 143. Kennedy Ranch, Davis Mountains, near Marfa. Altitude 5,400 feet. Purplish leaves.

216821. G 148. Experiment Station, Marfa. Altitude 4,880 feet. Foliage pale green.

216822. G 155. Twenty-five miles south of Marfa. Altitude 4,500 feet.

216823. G 159. Twenty-five miles south of Marfa. Altitude 4,500 feet.



## 216052 to 217384—Continued

## 216664 to 217341—Continued

## 216810 to 216906—Continued

## 216810 to 216899—Continued

216824. G 167. Thirty miles west of Fort Davis. Altitude 5,000 feet.
216825. G 170. Thirty miles west of Fort Davis. Altitude 5,200 feet.
216826. G 188. Picnic Rock, Limpia Canyon, near Fort Davis. Altitude 5,250 feet.
216827. G 196. McDonald Observatory, near top of Locke Mountain, Davis Mountains. Altitude 6,770 feet.
216828. G 203. Ten miles south of Marfa. Altitude 4,500 feet.
216829. G 216. Twenty-five miles south of Marfa. Altitude 6,000 feet.
216830. G 233. Four miles southeast of Marfa. Altitude 4,800 feet. Lower sheaths pubescent.
216831. G 241. Two miles south of Alpine. Altitude 4,800 feet.
216832. G 252. Fourteen miles south of Alpine. Altitude 4,600 feet.
216833. G 263. Big Bend National Park. Altitude 5,300 feet.
216834. G 286. Fourteen miles south of Marathon. Altitude 3,800 feet.
216835. H-V 10. Ten miles north of Stephenville.
216836. H-V 18. T & P Railroad Company rangeland in northern Erath County.
216837. H-V 21. Northern Erath County.
216838. H-V 32. Jewel Ramage Farm, southern Erath County. Small plants becoming established in competition with good native sod.
216839. H-V 48. Fourteen miles north of Stephenville.
216840. H-V 49. Fourteen miles north of Stephenville.
216841. H-V 55. Eleven miles east of Caddo. On U. S. 180. Vigorous leafy plant.
216842. H-V 59. Five miles south of Breckenridge.
216843. H-V 60. Lake Daniels, Stephens County. Vigorous plant.
216844. H-V 62. Lake Daniels, Stephens County.
216845. H-V 65. Fifteen miles southeast of Breckenridge. Large vigorous plants.
216846. H-V 79. Joe B. Mathews Ranch, 3 miles south of Albany.
216847. H-V 85. Joe B. Mathews Ranch, 3 miles south of Albany.
216848. H-V 91. Joe B Mathews Ranch, 3 miles south of Albany.
216849. H-V 95. One mile south of Albany.
216850. H-V 108. John Diller Farm, 9 miles north of Albany.
216851. H-V 109. John Diller Farm, 9 miles north of Albany. Broadleaf late type.
216852. H-V 112. John Diller Farm, 9 miles north of Albany. Late, leafy plant.

## 216052 to 217384—Continued

## 216664 to 217341—Continued

## 216810 to 216906—Continued

## 216810 to 216899—Continued

- 216853. H-V 123. Two miles southeast of Eliasville.
- 216854. H-V 124. Two miles southeast of Eliasville.
- 216855. H-V 133. Thomas Estate, 4 miles north of Throckmorton.
- 216856. H-V 138. Thomas Estate, 4 miles north of Throckmorton.
- 216857. H-V 142. Thomas Estate, 4 miles north of Throckmorton.
- 216858. H-V 153. Ten miles southeast of Throckmorton.
- 216859. H-V 154. Ten miles southeast of Throckmorton.
- 216860. H-V 157. Ten miles south of Throckmorton.
- 216861. H-V 160. Throckmorton City property above city lake.
- 216862 to 216866. Lowe Stout Ranch, southern Baylor County.
  - 216862. H-V 175. Fine-leafed, leafy plant.
  - 216863. H-V 176. Straight, stiff-leafed plant.
  - 216864. H-V 177. Leafy plant.
  - 216865. H-V 178. Light green leafy plant with short seedhead.
  - 216866. H-V 179. Dark green leafy plant.
- 216867. H-V 197. Craddock Brothers Ranch, 7 miles north of Seymour. Fine-stemmed, leafy plant.
- 216868. H-V 198. I. M. Higgins Ranch, 9 miles south of Seymour. Vigorous plant.
- 216869. H-V 204. I. M. Higgins Ranch, 9 miles south of Seymour. Broad-leafed plant.
- 216870. H-V 205. I. M. Higgins Ranch, 9 miles south of Seymour. Fine-leafed plant.
- 216871. H-V 212. J. S. Criswell Ranch, 9 miles south of Seymour.
- 216872 to 216876. Ten miles west of Crowell.
  - 216872. H-V 223.
  - 216873. H-V 228.
  - 216874. H-V 234. Large vigorous plant.
  - 216875. H-V 235. Plant with purple seedhead.
  - 216876. H-V 238.
- 216877. H-V 241. Mill-Iron Ranch, LaFayette-Hughes Estate, Cottle County.
- 216878. H-V 260. Milles Wells Ranch, 8 miles north of Paducah. Large vigorous plants.
- 216879. H-V 269. Four 6's Ranch, southwest of Guthrie. Large plant.
- 216880. H-V 274. Four 6's Ranch, southwest of Guthrie.
- 216881. H-V 301. Flowers Ranch, 5 miles southeast of Aspermont.
- 216882. H-V 306. Flowers Ranch, 5 miles southeast of Aspermont.
- 216883. H-V 307. Joy Pumphrey Ranch, 3 miles north of Old Glory. Stiff stalk and leaves.
- 216884. H-V 308. Joy Pumphrey Ranch, 3 miles north of Old Glory. Very leafy plant.

**216052 to 217384—Continued****216664 to 217341—Continued****216810 to 216906—Continued****216810 to 216899—Continued**

216885. H-V 309. Joy Pumphrey Ranch, 3 miles north of Old Glory.
216886. H-V 320. Lee Smith Ranch, 7 miles northwest of Knox City.
216887. H-V 338. Three miles north of Knox City. Leafy plant.
216888. H-V 349. Lynn Pace Ranch, 6 miles southwest of Haskell.
216889. H-V 366. Twenty-five miles southwest of Haskell on Flat Top Ranch.
216890. H-V 370. Knox Pittard Ranch, 9 miles east and 1 mile north of Anson.
216891. H-V 390. W. D. Baker Ranch, 15 miles east of Anson.
216892. H-V 403. Abilene State Park, southwest of Abilene.
216893. H-V 413. Abilene State Park, southwest of Abilene.
216894. H-V 418. Twenty-two miles north of Coleman.
216895. XG 4. Sutton County, 7 miles north of Sonora on Tom Davis Ranch.
216896. XG 15. Three miles north of Eldorado. Altitude 2,300 feet.
216897. XG 34. Thirteen miles north of Snyder. Altitude 2,400 feet.
216898. XG 43. Twenty miles south of Dumas. Altitude 3,700 feet.
216899. XG 49. Thirty miles southwest of Dalhart on railway right-of-way. Altitude 4,500 feet.
216900. XG 55. Twenty-five miles west of Santa Rosa, N. Mex. Altitude 4,700 feet.
216901. XG 71. Ten miles southwest of Socorro, N. Mex. Altitude 4,800 feet.
216902. XG 76. Twenty miles west of Tatum, N. Mex. Altitude 3,500 feet.
216903. XG 84. Ten miles west of Odessa, Tex. Altitude 3,000 feet.
216904. XG 89. Twenty miles north of Juno, Tex. Altitude 2,500 feet.
216905. Anthony—1. Marfa Experiment Station, 3 miles northeast of Marfa, Tex. Altitude 4,900 feet.
216906. 16-17. Miller Ranch, northern Borden County, Tex. Altitude 2,700 feet. Four inches of lush green growth since showers, while other grasses show very little response.

**216907 to 216925. BOUTELOUA ERIPODA Torr.****Black grama.**

Texas.

216907. G 43. Five miles north of Sterling City. Altitude 2,000 feet.
216908. G 56. Big Spring State Park. Altitude 2,700 feet.
216909. G 65. McKenzie State Park, Lubbock.



## 216052 to 217384—Continued

## 216664 to 217341—Continued

## 216907 to 216925—Continued

216910. G 138. Kennedy Ranch, Davis Mountains, near Marfa. Altitude 5,500 feet.
216911. G 149. Marfa Experiment Station, Marfa. Altitude 4,880 feet.
216912. G 151. Marfa Experiment Station, Marfa. Altitude 4,800 feet.
216913. G 152. Twenty-five miles south of Marfa. Altitude 4,500 feet.
216914. G 164. Twenty-five miles south of Marfa. Altitude 4,500 feet.
216915. G 169. Thirty miles west of Fort Davis. Altitude 5,000 feet.
216916. G 171. Thirty miles west of Fort Davis. Altitude 5,000 feet.
216917. G 202. Ten miles south of Marfa. Altitude 4,500 feet.
216918. G 215. Twenty-five miles south of Marfa. Altitude 6,000 feet.
216919. G 231. Four miles southeast of Marfa. Altitude 4,800 feet.
216920. G 250. Nine miles south of Alpine. Altitude 4,800 feet.
216921. G 234. Twelve miles northwest of Alpine. Altitude 4,800 feet.
216922. G 269. Big Bend National Park. Altitude 5,200 feet.
216923. G 278. Nineteen miles south of Marathon. Altitude 3,500 feet.
216924. G 285. Nineteen miles south of Marathon. Altitude 3,600 feet.
216925. Anthony—2. Marfa Experiment Station, 3 miles northeast of Marfa. Altitude 4,900 feet.

216926 to 216971. *BOULELOUA GRACILIS* (H.B.K.) Lag. Blue grama.

## 216926 to 216964. Texas.

216926. G 67. McKenzie State Park, Lubbock.
216927. G 91. Fifteen miles north of Littlefield. Altitude 3,350 feet.
216928. G 121. Twenty miles south of Fort Stockton.
216929. G 130. Twelve miles north of Fort Davis. Altitude 4,480 feet.
216930. G 139. Kennedy Ranch, Davis Mountains, near Marfa. Altitude 5,500 feet.
216931. G 144. Kennedy Ranch, Davis Mountains, near Marfa. Altitude 5,400 feet.
216932. G 147. Marfa Experiment Station, Marfa. Altitude 4,880 feet.
216933. G 150. Marfa Experiment Station, Marfa. Altitude 4,800 feet.
216934. G 153. Twenty-five miles south of Marfa. Altitude 4,500 feet.
216935. G 172. Thirty miles west of Fort Davis. Altitude 5,100 feet.



## 216052 to 217384—Continued

## 216664 to 217341—Continued

## 216926 to 216971—Continued

## 216926 to 216964—Continued

216936. G 184B. Twenty miles north of Marfa. Altitude 4,900 feet.
216937. G 194. McDonald Observatory, near top of Locke Mountain, Davis Mountains. Altitude 6,770 feet.
216938. G 204. Ten miles south of Marfa. Altitude 4,500 feet.
216939. G 209. Three miles south of Marfa. Altitude 4,700 feet.
216940. G 213. Twenty-five miles south of Marfa. Altitude 6,000 feet.
216941. G 230. Four miles southeast of Marfa. Altitude 4,800 feet.
216942. G 232. Four miles southeast of Marfa. Altitude 4,800 feet.
216943. G 235. Twelve miles northwest of Alpine. Altitude 4,800 feet.
216944. G 245. Two miles south of Alpine. Altitude 4,800 feet. Large leaves.
216945. G 246. Two miles south of Alpine. Altitude 4,800 feet.
216946. G 251. Fourteen miles south of Alpine. Altitude 4,600 feet.
216947. G 265. Big Bend National Park. Altitude 5,300 feet.
216948. H-V 75. Breckenridge golf course, Breckenridge.
216949. H-V 76. Breckenridge golf course, Breckenridge.
216950. H-V 181. Lowe Stout Ranch, southern Baylor County.
216951. H-V 188. Lowe Stout Ranch, southern Baylor County. Upright, fairly leafy plant.
216952. H-V 236. Ten miles west of Crowell.
216953. H-V 246. Mill-Iron Ranch, LaFayette Estate, Cottle County.
216954. H-V 261. Milles Wells Ranch, 8 miles north of Paducah.
216955. H-V 271. Four 6's Ranch, southwest of Guthrie, King County.
216956. H-V 194. Thirteen miles north of Aspermont.
216957. H-V 311. Joy Pumphrey Ranch, 3 miles north of Old Glory.
216958. H-V 332. Eight miles west of Benjamin.
216959. H-V 358. Twenty-five miles southwest of Haskell on Flat Top Ranch.
216960. H-V 359. Twenty-five miles southwest of Haskell on Flat Top Ranch.
216961. H-V 360. Twenty-five miles southwest of Haskell on Flat Top Ranch.
216962. H-V 386. W. D. Baker Ranch, 15 miles east of Anson.
216963. XG 33. Thirteen miles north of Snyder. Altitude 2,400 feet.
216964. XG 40. Two miles south of Happy. Altitude 3,600 feet.

**216052 to 217384—Continued****216664 to 217341—Continued****216926 to 216971—Continued**

216965. XG 52. Thirty miles west of Tucumcari, N. Mex. Altitude 4,300 feet.
216966. XG 61. One mile west of Saunders, Ariz. Altitude 6,000 feet.
216967. XG 63. Twenty-three miles west of Concho, Ariz. Altitude 5,500 feet.
216968. XG 69. Three miles east of Pie Town, N. Mex. Altitude 8,000 feet.
216969. XG 75. Ten miles east of Carizosa, N. Mex. Altitude 6,000 feet.
216970. XG 79. Twenty miles west of Tatum, N. Mex. Altitude 3,500 feet.
216971. Anthony—3. Marfa Experiment Station, 3 miles northeast of Marfa, Tex. Altitude 4,900 feet.

**216972 to 217018. BOUTELOUA HIRSUTA Lag.****Hairy grama.**

Texas.

216972. G 1. Santa Fe Ranch, near Encino. Large type.
216973. G 2. Santa Fe Ranch, near Encino.
216974. G 3. Santa Fe Ranch, near Encino.
216975. G 15. Experimental pastures, Encino Division, King Ranch, Encino.
216976. G 16. Experimental pastures, Encino Division, King Ranch, Encino.
216977. G 33. Sonora. Altitude 2,600 feet.
216978. G 48. Two miles west of Big Spring. Altitude 2,500 feet.
216979. G 68. McKenzie State Park, Lubbock.
216980. G 92. Fifteen miles north of Littlefield.
216981. G 99. Twenty-eight miles south of Morton.
216982. G 129. Twelve miles north of Fort Davis. Altitude 4,480 feet.
216983. G 134. Marfa Experiment Station, Kennedy Ranch. Altitude 5,500 feet.
216984. G 158. Twenty-four miles south of Marfa. Altitude 4,500 feet.
216985. G 168. Thirty miles west of Fort Davis. Altitude 5,000 feet.
216986. G 182. "Ho" Canyon, near Rock Pile Park, Davis Mountains. Altitude 5,800 feet.
216987. G 195. McDonald Observatory near top of Locke Mountain, Davis Mountains, Tex. Altitude 6,770 feet.
216988. G 205. Ten miles south of Marfa. Altitude 4,500 feet.
216989. G 214. Twenty-five miles south of Marfa. Altitude 6,000 feet.
216990. G 236. Twelve miles northwest of Alpine. Altitude 4,800 feet.
216991. G 243. Two miles south of Alpine. Altitude 4,800 feet.

## 216052 to 217384—Continued

## 216664 to 217341—Continued

## 216972 to 217018—Continued

216992. G 267. Big Bend National Park. Altitude 5,300 feet. Distinctly reddish foliage.
216993. G 274. Big Bend National Park. Altitude 5,200 feet. Purple, leafy form.
216994. H-V 17. T & P Railroad Company rangeland, northern Erath County.
216995. H-V 28. Jewel Ramage Farm, southern Erath County.
216996. H-V 35. Jewel Ramage Farm, southern Erath County.
216997. H-V 46. Fourteen miles north of Stephenville. Tall plant with good seed production.
216998. H-V 47. Fourteen miles north of Stephenville.
216999. H-V 81. Joe B. Matthews Ranch, 3 miles south of Albany.
217000. H-V 82. Joe B. Matthews Ranch, 3 miles south of Albany.
217001. H-V 140. Thomas Estate, 4 miles north of Throckmorton.
217002. H-V 191. Lowe Stout Ranch, southern Baylor County.
217003. H-V 206. I. M. Higgins Ranch, 9 miles south of Seymour.
217004. H-V 232. Ten miles west of Crowell. Tall seedstalks.
217005. H-V 233. Ten miles west of Crowell. Short plant and seed-stalk.
217006. H-V 247. Mill-Iron Ranch, LaFayette Estate, Cottle County.
217007. H-V 259. Milles Wells Ranch, 8 miles north of Paducah. Tall seedheads.
217008. H-V 286. Thirteen miles north of Aspermont.
217009. H-V 287. Thirteen miles north of Aspermont. Very fine leaves, leafy plant.
217010. H-V 295. Thirteen miles north of Aspermont.
217011. H-V 296. Flowers Ranch, 5 miles southeast of Aspermont. Leafy, vigorous plant.
217012. H-V 327. Lee Smith Ranch, 7 miles northwest of Knox City.
217013. H-V 361. Twenty-five miles southwest of Haskell on Flat Top Ranch.
217014. XG 32. Fifteen miles south of Sweetwater. Altitude 2,100 feet.
217015. Anthony—4. Kennedy Ranch, about 12 miles northeast of Marfa. Altitude 5,000 feet.
217016. 16-1. Two miles west of Mankins Archer County. Unusual vigor.
217017. XG 91. Five miles from Barksdale. Received as var. *pectinata*; place of publication not found.
217018. XG 90. One mile east of Kerrville. Altitude 2,400 feet. Received as var *pectinata*.

## 217019 to 217026. From Texas.

217019. *BOUTELOUA* sp.

H-V 34. Jewel Ramage Farm, southern Erath County.



## 216052 to 217384—Continued

## 216664 to 217341—Continued

## 217019 to 217026—Continued

217020. *BOUTELOUA* sp.

H-V 39. Jewel Ramage Farm, southern Erath County.

217021. *BOUTELOUA* sp.

H-V 45. Fourteen miles north of Stephenville.

217022. *BOUTELOUA* sp.

H-V 208. I. M. Higgins Ranch, 9 miles south of Seymour.

217023. *BOUTELOUA* sp.

H-V 214. J. S. Criswell Ranch, 9 miles south of Seymour.

217024. *BOUTELOUA* sp.

H-V 230. Ten miles west of Crowell. Very fine leafed plant.

217025. *BOUTELOUA* sp.

H-V 231. Ten miles west of Crowell. Coarse plant.

217026. *BROMUS MARGINATUS* Nees. Poaceae.

G 177. Base of Rock Pile, Davis Mountains. Altitude 6,000 feet.

217027 to 217057. *BUCHLOE DACTYLOIDES* (Nutt.) Engelm. Poaceae.  
Buffalo grass.

Texas.

217027. G 45. Five miles north of Sterling City. Altitude 2,000 feet.

217028. G 51. Ten miles northeast of Big Spring. Altitude 2,500 feet.

217029. G 84. Experiment Station, Lubbock.

217030. G 85. Experiment Station, Lubbock.

217031. G 104. Two miles southwest of Odessa.

217032. G 113. Five miles south of Fort Stockton.

217033. G 289. Five miles south of Marathon. Altitude 3,600 feet.

217034. G 290. Five miles south of Marathon. Altitude 3,600 feet.

217035. H-V 88. Joe B. Matthews Ranch, 3 miles south of Albany.

217036. H-V 89. Joe B. Matthews Ranch, 3 miles south of Albany.

217037. H-V 94. One mile south of Albany.

217038. H-V 96. One mile south of Albany.

217039. H-V 101. Merrick Davis Ranch, 6 miles west of Albany.

217040. H-V 103. Merrick Davis Ranch, 6 miles west of Albany.

217041. H-V 111. John Diller Farm, 9 miles north of Albany.

217042. H-V 145. Thomas Estate, 4 miles north of Throckmorton.

217043. H-V 146. Thomas Estate, 4 miles north of Throckmorton.

217044. H-V 183. Lowe Stout Ranch, southern Baylor County.

217045. H-V 184. Lowe Stout Ranch, southern Baylor County.

217046. H-V 202. I. M. Higgins Ranch, 9 miles south of Seymour.

217047. H-V 302. Flowers Ranch, 5 miles southeast of Aspermont.

217048. H-V 325. Lee Smith Ranch, 7 miles northwest of Knox City.

217049. H-V 326. Lee Smith Ranch, 7 miles northwest of Knox City.



## 216052 to 217384—Continued

## 216664 to 217341—Continued

## 217027 to 217057—Continued

217050. H-V 350. Lynn Pace Ranch, 6 miles southwest of Haskell.  
217051. H-V 351. Lynn Pace Ranch, 6 miles southwest of Haskell.  
217052. XG 39. Two miles south of Happy. Altitude 3,600 feet.  
217053. XG 87. Five miles northeast of Mertzon. Altitude 2,500 feet.  
217054. 16-7. Nual Ranch, 5 miles west of Albany. Alive and vigorous in area where most buffalo grass was dead.  
217055. 16-9. Five miles west of Aspermont. Altitude 1,800 feet. Large type plant with mature seed in area where little grass remains due to drought.  
217056. 16-13. Two miles west of Justiceburg. Dense growth of very short, fine stems and foliage.  
217057. 16-18. Miller Ranch, northern Borden County. Altitude 2,700 feet.

217058 to 217063. *CHLORIS CUCULLATA* Bisch. Poaceae.

Texas.

217058. G 49. Two miles west of Big Spring. Altitude 2,500 feet.  
217059. G 103. Two miles southwest of Odessa.  
217060. G 108. Ten miles south of Monahans.  
217061. H-V 61. Vicinity of Lake Daniels.  
217062. H-V 365. Twenty-five miles southwest of Haskell on Flat Top Ranch.  
217063. H-V 387. W. D. Baker Ranch, 15 miles east of Anson.

217064. *CHLORIS VIRGATA* Swartz.

Feather fingergrass.

G 185. Espey Ranch, 20 miles north of Marfa, Tex. Altitude 4,900 feet.

## 217065 to 217067. From Texas.

217065. *CHLORIS* sp.

H-V 119. East side of Brazos River, Eliasville.

217066. *CHLORIS* sp.

H-V 63. Vicinity of Lake Daniels. Extremely vigorous plant.

217067. *CHLORIS* sp.

H-V 369. Knox Pittard Ranch, 9 miles east and 1 mile north of Anson.

217068 to 217079. *CYNODON DACTYLON* (L.) Pers. Poaceae.

Bermuda grass.

Texas.

217068. G 17. Experimental pastures, Encino Division, King Ranch, Encino.  
217069. G 18. Experimental pastures, Encino Division, King Ranch, Encino.  
217070. G 111. Comanche Spring Park, Fort Stockton.  
217071. G 127. Balmarhea, on Agricultural Experiment Station Farm.

## 216052 to 217384—Continued

## 216664 to 217341—Continued

## 217068 to 217079—Continued

217072. G 240. Marfa, near Mitre Peak. Altitude 4,688 feet.  
217073. H-V 3. Five miles northeast of Comanche. Tall, vigorous plant.  
217074. H-V 14. Twelve miles north of Stephenville. Plants green under extremely dry conditions.  
217075. H-V 164. Throckmorton County. Large, vigorous plant.  
217076. H-V 167. Seven miles north of Clifton. Tall, vigorous plant.  
217077. H-V 174. Seven miles north of Gorman. Vigorous, coarse plant.  
217078. H-V 348. Knox City. Very tall, coarse plant, at least 24 inches high.  
217079. Anthony—6. Marfa Experiment Station, 3 miles northeast of Marfa. Altitude 4,900 feet.

## 217080 and 217081. ELYMUS CANADENSIS L. Poaceae. Canada wildrye.

217080. XG 13. One mile north of Loma Alta, Tex. Altitude 2,000 feet.  
217081. XG 30. Seventeen miles south of Sweetwater, Tex. Altitude 2,100 feet.

## 217082. ELYMUS sp.

- G 116. Near *E. canadensis*. Two miles south of Fort Stockton, Tex.

## 217083. ELYONURUS BARBICULMIS Hack. Poaceae.

- G 183. "Ho" Canyon, near Rock Pile Park, Davis Mountains, Tex. Altitude 5,800 feet.

## 217084 and 217085. ERAGROSTIS INTERMEDIA Hitchc. Poaceae.

217084. G 189. Picnic Rock, Limpia Canyon, near Fort Davis, Tex. Altitude 5,250 feet.  
217085. XG 94. Five miles from Barksdale, Tex. Altitude 2,500 feet.

## 217086. ERAGROSTIS TRICHODES (Nutt.) Wood. Lovegrass.

- H-V 268. C. L. Wright Farm, north of Paducah, Tex.

## 217087 to 217091. From Texas.

## 217087. ERAGROSTIS sp.

- XG 46. Thirty-five miles northwest of Dalhart. Altitude 4,700 feet.

## 217088. ERAGROSTIS sp.

- XG 47. Thirty-five miles northwest of Dalhart. Altitude 4,700 feet.

## 217089. ERAGROSTIS sp.

- XG 48. Thirty miles southwest of Dalhart. Altitude 4,500 feet.

## 217090. ERAGROSTIS sp.

- XG 93. Five miles from Barksdale on Vance Road. Altitude 2,500 feet.

217091. Anthony—14. Kennedy Ranch, about 12 miles northeast of Marfa. Altitude 5,000 feet.

## 217092. ERIOCHLOA GRACILIS (Fourn.) Hitchc. Poaceae.

- XG 19. Three miles north of Eldorado, Tex. Altitude 2,000 feet.

## 216052 to 217384—Continued

## 216664 to 217341—Continued

217093 and 217094. *ERIOCHLOA SERICEA* (Scheele) Munro.

Thomas Estate, 4 miles north of Throckmorton, Tex.

217093. H-V 134.

217094. H-V 135.

217095. *ERIOCHLOA* sp.

G 27. Sonora, Tex. Altitude 2,600 feet.

217096 to 217100. *HETEROPOGON CONTORTUS* (L.) Beauv. Poaceae.  
Texas.

217096. G 4. Santa Fe Ranch, near Encino.

217097. G 5. Santa Fe Ranch, near Encino.

217098. G 207. Five miles north of Shafter. Altitude 4,700 feet.

217099. G 271. Big Bend National Park. Altitude 5,300 feet.

217100. G 280. Nineteen miles south of Marathon. Altitude 3,600 feet.

217101 to 217109. *HILARIA BELANGERI* (Steud.) Nash. Poaceae.  
Curly mesquite.

Texas.

217101. G 31. Sonora. Altitude 2,600 feet.

217102. H-V 84. Joe B. Matthews Ranch, 3 miles south of Albany.

217103. H-V 97. One mile south of Albany.

217104. H-V 102. Merrick Davis Ranch, 6 miles west of Albany.

217105. H-V 110. John Diller Farm, 9 miles north of Albany.

217106. H-V 143. Thomas Estate, 4 miles north of Throckmorton.

217107. H-V 151. Ten miles southeast of Throckmorton.

217108. H-V 186. Lowe Stout Ranch, southern Baylor County.

217109. H-V 315. Joy Pumphrey Ranch, 3 miles north of Old Glory.

217110 to 217114. *HILARIA JAMESII* (Torr.) Benth. Galleta.

217110. XG 57. Fifteen miles west of Albuquerque, N. Mex. Altitude 5,000 feet.

217111. XG 62. One mile west of Saunders, Ariz. Altitude 6,000 feet.

217112. XG 64. Twenty-three miles west of Concho, Ariz. Altitude 5,500 feet.

217113. XG 72. Ten miles southwest of Socorro, N. Mex. Altitude 4,800 feet.

217114. XG 74. Ten miles east of Carrizozo, N. Mex. Altitude 6,000 feet.

217115 to 217120. *HILARIA MUTICA* (Buckl.) Benth. Tobosa grass.

217115. XG 17. Three miles north of Eldorado, Tex. Altitude 2,000 feet.

217116. XG 37. Ten miles south of Post, Tex. Altitude 2,400 feet.

217117. XG 53. Thirty miles west of Tucumcari, N. Mex. Altitude 4,300 feet.

217118. XG 78. Twenty miles west of Tatum, N. Mex. Altitude 3,500 feet.



## 216052 to 217384—Continued

## 216664 to 217341—Continued

## 217115 to 217120—Continued

217119. XG 85. Ten miles west of Odessa, Tex. Altitude 3,000 feet.

217120. XG 86. Irion County, 5 miles northeast of Mertzon, Tex. Altitude 2,500 feet.

217121 to 217124. *HILARIA SWALLENII* Cory.

Texas.

217121. G 133. Davis Mountains, in pasture near Marfa. Altitude 5,500 feet.

217122. G 145. Experiment Station pasture, near office, Marfa. Altitude 4,880 feet.

217123. G 162. Spur Ranch, R. Mellard. Twenty-five miles south of Marfa. Altitude 4,500 feet.

217124. G 210. Three miles south of Marfa. Altitude 4,700 feet.

217125 to 217133. *LEPTOCHLOA DUBIA* (H.B.K.) Nees. Poaceae.

Texas.

217125. G 58. Big Spring State Park. Altitude 2,600 feet.

217126. G 193. Locke Mountain, McDonald Observatory, Davis Mountains. Altitude 6,770 feet.

217127. G 212. Twenty-five miles south of Marfa. Altitude 6,000 feet.

217128. G 239. Twelve miles northwest of Alpine. Altitude 4,800 feet.

217129. G 281. Nineteen miles south of Marathon. Altitude 3,600 feet.

217130. H-V 159. Throckmorton, above city's lake.

217131. XG 3. Seven miles north of Sonora on Tom Davis Ranch. Altitude 2,400 feet.

217132. XG 88. Twenty miles north of Juno. Altitude 2,500 feet.

217133. Anthony—16. Kennedy Ranch, about 12 miles northeast of Marfa. Altitude 5,000 feet.

217134 to 217138. *LEPTOLOMA COGNATUM* (Schult.) Chase. Poaceae.

Texas.

217134. H-V 237. Ten miles west of Crowell.

217135. XG 5. Seven miles north of Sonora on Tom Davis Ranch. Altitude 2,400 feet.

217136. H-V 257. Milles Wells Ranch, 8 miles north of Paducah.

217137. XG 29. Fifteen miles north of San Angelo. Altitude 1,800 feet.

217138. XG 44. Twenty miles south of Dumas. Altitude 3,700 feet.

217139 and 217140. *LYCURUS PHLEOIDES* (H.B.K.) Poaceae. Wolf tail.

217139. G 178B. Davis Mountains, Tex. Altitude 6,000 feet.

217140. Anthony—10. Kennedy Ranch, about 12 miles northeast of Marfa, Tex. Altitude 5,000 feet.



## 216052 to 217384—Continued

## 216664 to 217341—Continued

217141 and 217142. *MELICA MUTICA* Walt. Poaceae.

217141. XG 14. One mile north of Loma Alta, Tex. Altitude 2,000 feet.

217142. XG 23. Fifteen miles northeast of Eldorado, Tex. Altitude 2,300 feet.

217143. *MUHLENBERGIA ARENICOLA* Buckl. Poaceae.

G 46. Five miles north of Sterling City, Tex. Altitude 2,000 feet.

217144. *MUHLENBERGIA EMERSLEYI* Vasey. Bullgrass.

G 266. Big Bend National Park, Tex. Altitude 5,300 feet.

217145 and 217146. *MUHLENBERGIA PORTERI* Scribn.

217145. G 109. Ten miles south of Monahans, Tex.

217146. G 156. Spur Ranch, 25 miles south of Marfa, Tex. Altitude 4,500 feet.

217147. *MUHLENBERGIA TORREYI* (Kunth) Hitchc.

G 198. McDonald Observatory, near top of Locke Mountain, Davis Mountains, Tex. Altitude 6,770 feet.

217148. *MUHLENBERGIA* sp.

Anthony—9. Kennedy Ranch, 12 miles northeast of Marfa, Tex. Altitude 5,000 feet.

217149 and 217150. *ORYZOPSIS HYMENOIDES* (Roem. & Schult.) Ricker. Poaceae. Indian ricegrass.

217149. XG 56. Fifteen miles west of Albuquerque, N. Mex. Altitude 5,000 feet.

217150. XG 59. One mile west of Saunders, Ariz. Altitude 6,000 feet.

217151 and 217152. *PANICUM ANTIDOTALE* Retz. Poaceae. Blue panicum.

217151. G 35. Sonora, Tex. Altitude 2,600 feet.

217152. XG 101. Ranch Experiment Station, Edwards County, Tex. Altitude 2,600 feet.

217153 and 217154. *PANICUM BULBOSUM* H.B.K.

217153. G 176. Davis Mountains, Tex. Altitude 6,000 feet.

217154. G 262. Big Bend National Park, Tex. Altitude 5,200 feet. Pubescent blades, red spikelets.

217155 to 217162. *PANICUM HALLII* Vasey.

Texas.

217155. G 120. Fifteen miles south of Fort Stockton.

217156. G 123. Twenty miles northwest of Fort Stockton.

217157. G 166. Thirty miles west of Fort Davis. Altitude 5,000 feet.

217158. G 190. Picnic Rock, Limpia Canyon, near Fort Davis. Altitude 5,250 feet.

217159. G 218. Twenty-five miles south of Marfa. Altitude 6,000 feet.

217160. H-V 211. J. S. Criswell Ranch, 9 miles south of Seymour.

217161. H-V 239. Ten miles west of Crowell.

217162. Anthony—12. Kennedy Ranch, 12 miles northeast of Marfa. Altitude 5,000 feet.

## 216052 to 217384—Continued

## 216664 to 217341—Continued

- 217163 to 217204. *PANICUM OBTUSUM* H.B.K. Vine-mesquite.  
Texas.
217163. G 105. Two miles southwest of Odessa.
217164. G 114. Two miles north of Fort Stockton.
217165. G 117. Two miles south of Fort Stockton.
217166. G 146. Marfa. Altitude 4,880 feet.
217167. G 186. Espy Ranch, 20 miles north of Marfa. Altitude 4,900 feet.
217168. G 199. McDonald Observatory, near top of Locke Mountain, Davis Mountains. Altitude 6,770 feet.
217169. G 219. Twenty miles south of Marfa. Altitude 5,900 feet.
217170. H-V 5. Ten miles north of Stephenville.
217171. H-V 15. T & P Railroad Company range plant, northern Erath County.
217172. H-V 58. Breckenridge airport, Breckenridge.
217173. H-V 73. Breckenridge golf course, Breckenridge.
217174. H-V 78. Breckenridge golf course, Breckenridge.
217175. H-V 80. Joe B. Matthews Ranch, 3 miles south of Albany.
217176. H-V 83. Joe B. Matthews Ranch, 3 miles south of Albany.
217177. H-V 86. Joe B. Matthews Ranch, 3 miles south of Albany.
217178. H-V 93. Railroad 1 mile south of Albany.
217179. H-V 104. Merrick Davis Ranch, 6 miles west of Albany.
217180. H-V 115. Five miles east of Albany. Plants 12 inches high.
217181. H-V 118. East side of Brazos River, Eliasville.
217182. H-V 125. Six miles southeast of Eliasville.
217183. H-V 144. Thomas Estate, 4 miles north of Throckmorton.
217184. H-V 185. Lowe Stout Ranch, southern Baylor County.
217185. H-V 194. Six miles southwest of Seymour.
217186. H-V 209. I. M. Higgins Ranch, 9 miles south of Seymour.
217187. H-V 219. Sixteen miles west of Seymour.
217188. H-V 222. Ten miles west of Crowell.
217189. H-V 245. Mill-Iron Ranch, LaFayette Estate, Cottle County, Texas.
217190. H-V 272. Four 6's Ranch, southwest of Guthrie.
217191. H-V 284. Ten miles south of Guthrie.
217192. H-V 304. Flowers Ranch, 5 miles southeast of Aspermont.
217193. H-V 316. Joy Pumphrey Ranch, 3 miles north of Old Glory.
217194. H-V 321. Lee Smith Ranch, 7 miles northwest of Knox City.
217195. H-V 339. Three miles north of Knox City.
217196. H-V 353. Lynn Pace Ranch, 6 miles southwest of Haskell.
217197. H-V 356. Twenty-five miles southwest of Haskell.
217198. H-V 373. Knox Pittard Ranch, 9 miles east and 1 mile north of Anson.

## 216052 to 217384—Continued

## 216664 to 217341—Continued

## 217163 to 217204—Continued

217199. H-V 394. Fourteen miles west of Anson.  
217200. H-V 411. Abilene State Park, southwest of Abilene.  
217201. XG 18. Three miles north of Eldorado. Altitude 2,000 feet.  
217202. XG 35. Ten miles south of Post. Altitude 2,400 feet.  
217203. XG 73. Ten miles southwest of Socorro. Altitude 4,800 feet.  
217204. Anthony—7. Marfa Experiment Station, 3 miles northeast of Marfa. Altitude 4,900 feet.  
217205. *PANICUM PLENUM* Hitchc. & Chase.  
XG 98. Junction, Tex. Altitude 1,700 feet.  
217206 to 217215. *PANICUM VIRGATUM* L. Switch grass.  
Texas.  
217206. G 9. Santa Fe Ranch, near Encino.  
217207. G 10. Santa Fe Ranch, near Encino.  
217208. G 19. Experimental pastures, Encino Division, King Ranch, Encino.  
217209. G 95. Fifteen miles north of Littlefield. Altitude 3,350 feet.  
217210. G 96. Fourteen miles north of Littlefield. Altitude 3,350 feet.  
217211. H-V 116. East side of Brazos River, Eliasville.  
217212. H-V 341. George Studds Farm, 1 mile north of Knox City.  
217213. H-V 342. George Studds Farm, 1 mile north of Knox City.  
217214. H-V 380. Nine miles east and 3 miles north of Anson.  
217215. XG 24. Seven miles north of Sonora on Tom Davis Ranch. Altitude 2,400 feet.  
217216. *PANICUM* sp.  
H-V149. Thomas Estate, 4 miles north of Throckmorton, Tex.  
217217. *PAPPOPHORUM* sp. Poaceae.  
G 125. Between Fort Stockton and Pecos, Tex.  
217218. *PASPALUM PLICATULUM* Michx. Poaceae.  
G 23. Experimental pastures, Encino Division, King Ranch, Encino, Tex.  
217219. *POA ARACHNIFERA* Torr. Poaceae. Texas bluegrass.  
XG 99. Junction, Tex. Altitude 1,700 feet.  
217220. *SETARIA GRISEBACHII* Fourn. Poaceae.  
G 118. Five miles south of Fort Stockton, Tex.  
217221 to 217241. *SETARIA MACROSTACHYA* H.B.K.  
Texas.  
217221. G 50. Two miles west of Big Spring. Altitude 2,500 feet.  
217222. G 107. Ten miles south of Monahans.  
217223. G 126. Reeves County.  
217224. G 132. Eight miles north of Fort Davis. Altitude 4,600 feet.



## 216052 to 217384—Continued

## 216664 to 217341—Continued

## 217221 to 217241—Continued

217225. G 140. Kennedy Ranch, Davis Mountains, near Marfa Experiment Station. Altitude 5,600 feet.
217226. G 154. Spur Ranch, 25 miles south of Marfa. Altitude 4,500 feet.
217227. G 206. Twelve miles south of Marfa. Altitude 4,500 feet.
217228. G 220. Twenty miles south of Marfa. Altitude 5,900 feet.
217229. G 273. Big Bend National Park. Altitude 5,300 feet.
217230. H-V 72. Breckenridge golf course, Breckenridge.
217231. H-V 77. Breckenridge golf course, Breckenridge.
217232. H-V 121. East side of Brazos River, Eliasville.
217233. H-V 122. East side of Brazos River, Eliasville.
217234. H-V 253. Mill-Iron Ranch, LaFayette Estate, Cottle County.
217235. H-V 264. Milles Wells Ranch, 8 miles north of Paducah.
217236. H-V 270. Four 6's Ranch, southwest of Guthrie.
217237. H-V 291. Thirteen miles north of Aspermont.
217238. H-V 393. Fourteen miles west of Anson.
217239. H-V 399. Five miles north of Noodle.
217240. H-V 416. Abilene State Park, southwest of Abilene.
217241. 16-19. West of Dickens. Altitude 2,400 feet. Plants up to 3 feet tall.

217242 to 217249. *SORGHASTRUM NUTANS* (L.) Nash. Poaceae.  
Indian grass.

Texas.

217242. G 81. Slaton, near Lubbock.
217243. G 141. Kennedy Ranch, Davis Mountains, near Marfa. Altitude 5,600 feet.
217244. H-V 31. Jewel Ramage Farm, southern Erath County.
217245. H-V 105. Merrick Davis Ranch, 6 miles west of Albany.
217246. H-V 106. Merrick Davis Ranch, 6 miles west of Albany.
217247. H-V 345. George Studds Farm, 1 mile north of Knox City.
217248. H-V 415. Abilene State Park, southwest of Abilene.
217249. XG 96. Ten miles east of Rocksprings on Barksdale road. Altitude 2,500 feet.

217250 to 217300. *SORGHUM HALEPENSE* (L.) Pers. Poaceae.  
Johnson grass.

Texas.

217250. H-V 2. Nine miles south of Comanche. Vigorous, leafy plant.
217251. H-V 19. Northwestern Erath County. Plant noted for good leafiness.
217252. H-V 20. Northwestern Erath County. Plant noted for good leafiness.
217253. H-V 41. Northeastern Erath County. Large, vigorous plants.
217254. H-V 42. Northeastern Erath County. Plant with fine leaves and stems.



## 216052 to 217384—Continued

## 216664 to 217341—Continued

## 217250 to 217300—Continued

217255. H-V 43. Northeastern Erath County. Leafy plant with medium-size stems.
217256. H-V 54. Fourteen miles east of Caddo. Fine leafy short type.
217257. H-V 56. Eight miles east of Caddo. Broad-leafed plant.
217258. H-V 57. Eight miles east of Caddo. Extremely vigorous, tall plant.
217259. H-V 64. Twelve miles southeast of Breckenridge. Very leafy plant with large rhizomes.
217260. H-V 107. Two miles west of Albany.
217261. H-V 113. Five miles east of Albany.
217262. H-V 114. Five miles east of Albany. Very large stems.
217263. H-V 126. Six miles southeast of Eliasville. Fine-stemmed leafy plant.
217264. H-V 127. Six miles southeast of Eliasville.
217265. H-V 141. Thomas Estate, 4 miles north of Throckmorton.
217266. H-V 155. Ten miles southeast of Throckmorton.
217267. H-V 158. Ten miles south of Throckmorton.
217268. H-V 161. Throckmorton, above city lake.
217269. H-V 166. Seven miles north of Clifton. Fine-stemmed plant.
217270. H-V 169. Sixteen miles north of Meridian.
217271. H-V 172. Three miles north of De Leon.
217272. H-V 187. Lowe Stout Ranch in southern Baylor County. Vigorous plants.
217273. H-V 192. Six miles southwest of Seymour. Very coarse plant.
217274. H-V 193. Six miles southwest of Seymour. Medium size stems, but not very leafy.
217275. H-V 195. Six miles southwest of Seymour. Fine-stemmed leafy plant.
217276. H-V 203. I. M. Higgins Ranch, 9 miles south of Seymour.
217277. H-V 217. Eight and one-half miles west of Seymour. Coarse-stemmed plant.
217278. H-V 231. Sixteen miles west of Seymour.
217279. H-V 226. Ten miles west of Crowell. Fine-stemmed leafy plant.
217280. H-V 227. Ten miles west of Crowell. Very coarse plant.
- 217281 to 217286. Five miles south of Guthrie.
217281. H-V 276. Fine-stemmed, tall, much more vigorous than surrounding plants.
217282. H-V 277. Very coarse large stems, tall, but not very leafy.
217283. H-V 278. Short, leafy; maturing at not more than 30 inches high.

## 216052 to 217384—Continued

## 216664 to 217341—Continued

## 217250 to 217300—Continued

## 217281 to 217286—Continued

217284. H-V 279. Coarse, but leafy, heads about 48 inches from ground.

217285. H-V 280. Very fine stems, short and leafy.

217286. H-V 281. Coarse stems, not very leafy.

217287. H-V 282. Ten miles south of Guthrie. Vigorous, leafy plants.

217288. H-V 283. Ten miles south of Guthrie. Vigorous, leafy plants.

217289. H-V 340. George Studds Farm, 1 mile north of Knox City.

217290. H-V 346. Ten miles north of Knox City. Very coarse stems, not very leafy.

217291. H-V 367. Twenty-five miles southwest of Haskell on Flat Top Ranch.

217292. H-V 389. W. D. Baker Ranch, 15 miles east of Anson.

217293. H-V 395. Fourteen miles west of Anson. Fine-stemmed.

217294. H-V 396. Albert Eviens Farm, Route A, McCaulley. Very vigorous, coarse and leafy; may be a hybrid.

217295. H-V 397. Albert Eviens Farm, Route A, McCaulley. Medium-sized stems.

217296. H-V 398. Albert Eviens Farm, Route A, McCaulley. Very fine stems.

217297. H-V 407. Abilene State Park, southwest of Abilene.

217298. H-V 412. Abilene State Park, southwest of Abilene.

217299. H-V 421. Twenty-two miles north of Coleman. Vigorous young plant, large rhizomes.

217300. H-V 426. Two miles north of Goldthwaite.

217301 to 217305. *SPOROBOLUS AIROIDES* Torr. Poaceae.

Texas.

217301. G 253. East of 9-point Mesa, near Big Bend National Park. Altitude 3,020 feet.

217302. H-V 333. Eight miles west of Benjamin.

217303. H-V 354. Lynn Pace Ranch, 6 miles southwest of Haskell.

217304. XG 38. Ten miles south of Post. Altitude 2,400 feet.

217305. XG 45. Forty miles northwest of Dalhart. Altitude 4,700 feet.

217306. *SPOROBOLUS ASPER* (Michx.) Kunth.

XG 22. Fifteen miles northeast of Eldorado, Tex. Altitude 2,300 feet.

217307 and 217308. *SPOROBOLUS CRYPTANDRUS* (Torr.) A. Gray.

Sand dropseed.

217307. XG 41. Two miles south of Happy, Tex. Altitude 3,600 feet.

217308. H-V 66. Wayland Cemetery, southern Stephens County, Tex.

217309 and 217310. *STIPA EMINENS* Cav. Poaceae.

217309. G 180. Davis Mountains, Tex. Altitude 6,000 feet.

217310. G 276. Big Bend National Park, Tex. Altitude 5,200 feet.

## 216052 to 217384—Continued

## 216664 to 217341—Continued

217311 to 217316. *STIPA LEUCOTRICHA* Trin. & Rupr.

Texas.

217311. G 28. Sonora. Altitude 2,600 feet.

217312. G 59. Big Spring State Park. Altitude 2,600 feet.

217313. H-V 87. Joe B. Matthews Ranch, 3 miles south of Albany.

217314. H-V 148. Thomas Estate, 4 miles north of Throckmorton.

217315. H-V 201. I. M. Higgins Ranch, 9 miles south of Seymour.

217316. H-V 371. Knox Pittard Ranch, 9 miles east and 1 mile north of Anson.

217317. *STIPA NEOMEXICANA* (Thurb.) Scribn. New Mexico feathergrass.

G 62. Big Spring State Park, Tex. Altitude 2,700 feet.

217318. *TRACHYPOGON* sp. Poaceae.

G 11. Santa Fe Ranch, near Encino, Tex.

217319. *TRACHYPOGON* sp.

G 12. Santa Fe Ranch, near Encino, Tex.

217320 to 217331. *TRICHACHNE CALIFORNICA* (Benth.) Chase. Poaceae.  
Cottontop.

Texas.

217320. G 106. Ten miles south of Monahans.

217321. G 157. Spur Ranch, 25 miles south of Marfa. Altitude 4,500 feet.

217322. G 160. Spur Ranch, 25 miles south of Marfa. Altitude 4,500 feet.

217323. G 181. Davis Mountains. Altitude 6,000 feet.

217324. G 184A. "Ho" Canyon, near Rock Pile Park, Davis Mountains. Altitude 5,800 feet.

217325. G 191. Picnic Rock, Limpia Canyon, near Fort Davis. Altitude 5,250 feet.

217326. G 197. McDonald Observatory, near top of Locke Mountain, Davis Mountains. Altitude 6,770 feet.

217327. G 257. North of Eggshell Peak, 15 miles north of Terlingua. Altitude 2,800 feet.

217328. G 270. Big Bend National Park. Altitude 5,300 feet. Narrow-leaf type.

217329. H-V 336. Ten miles north of Knox City.

217330. H-V 392. W. D. Baker Ranch, 15 miles east of Anson.

217331. XG 27. Fifteen miles north of San Angelo on Bronte Highway. Altitude 1,800 feet.

217332. *TRICHLORIS* sp. Poaceae.

G 124. Between Fort Stockton and Pecos, Tex.

217333. *TRIDENS ERAGROSTOIDES* (Vasey & Scribn.) Nash. Poaceae.

XG 100. On Llano River in outskirts of Junction, Tex. Altitude 1,700 feet.

217334. *TRIDENS MUTICUS* (Torr.) Nash.

G 287. Fifteen miles south of Marathon, Tex. Altitude 3,800 feet.



## 216052 to 217384—Continued

## 216664 to 217341—Continued

217335. *TRIDENS* sp.

G 122. Twenty miles northwest of Fort Stockton, Tex.

217336. *TRIODIA ALBESCENS* (Vasey) Woot. Poaceae.

H-V 335. Ten miles north of Knox City, Tex.

217337. *TRIODIA* sp.

H-V 210. I. M. Higgins Ranch, 9 miles south of Seymour, Tex.

217338 and 217339. *TRIPSACUM DACTYLOIDES* L. Poaceae.

Eastern gamagrass.

217338. G 174. Base of Rock Pile, Davis Mountains, Tex. Altitude 6,500 feet.

217339. XG 97. Adam Wilson Ranch, 25 miles west of Kerrville, Tex. Altitude 2,000 feet.

## 217340 and 217341. (Undetermined.)

217340. G 47. Two miles west of Big Spring, Tex. Altitude 2,500 feet.

217341. XG 58. Fifteen miles west of Albuquerque, N. Mex. Altitude 5,000 feet.

## 217342 to 217354. Clones of leguminous and miscellaneous species.

## 217342 to 217351. Texas.

217342. *ACACIA TEXENSIS* Torr. & Gray. Mimosaceae.

L 17. Fifteen miles west of Marfa. Altitude 5,000 feet.

217343. *CALLIANDRA* sp. Mimosaceae.

XS 2A. Ten miles east of Langtry. Altitude 2,400 feet.

217344. *DALEA* sp. Fabaceae.

L 12. Sonora. Altitude 2,600 feet.

217345. *DALEA* sp.

XS 4. Twenty miles south of Sweetwater on Angelo-Sweetwater Highway. Altitude 2,100 feet.

217346. *DOLICHOS* sp. Fabaceae.

L 3. Santa Fe Ranch, near Encino.

217347. *GALACTIA CANESCENS* Benth. Fabaceae.

L 9. Experimental pastures, Encino Division, King Ranch, Encino.

217348. *GALACTIA* sp.

L 1. Santa Fe Ranch, near Encino.

217349. *INDIGOFERA* sp. Fabaceae.

L 2. Santa Fe Ranch, near Encino.

217350. *TRIFOLIUM REPENS* L. Fabaceae. White clover.

H-V 417. Abilene State Park, southwest of Abilene. Excellent growth.

217351. *ERIOGONUM WRIGHTII* Torr. Polygonaceae.

B 1. Fourteen miles south of Alpine. Altitude 4,600 feet. Excellent browse.

217352 to 217354. *EUROTIA LANATA* (Pursh) Moq. Chenopodiaceae.



## 216052 to 217384—Continued

## 217342 to 217354—Continued

## 217352 to 217354—Continued

217352. XS 5. Twenty-five miles west of Santa Rosa, N. Mex. Altitude 4,700 feet.

217353. XS 6. One mile west of Saunders, Ariz. Altitude 6,000 feet.

217354. XS 7. Forty miles southeast of St. Johns, Ariz. Altitude 6,000 feet.

## 217355 to 217384. Seeds of leguminous species.

217355. CASSIA BAUHINIOIDES A. Gray. Caesalpiniaceae.

L 20. Five miles south of Shafter, Tex. Altitude 3,750 feet.

217356 and 217357. CASSIA ROEMERIANA Scheele.

217356. L 13. Big Spring State Park. Altitude 2,600 feet. Perennial, 2 leaflets.

217357. L 15. Ponder Ranch, Davis Mountains, near Marfa, Tex. Altitude 5,400 feet.

217358. CASSIA sp.

L 14. Thirty-four miles south of Marfa, Tex.

217359. CASSIA sp.

L 16. Two miles south of Ojinaga, Chihuahua, Mexico. Altitude 3,000 feet. Two leaflets, oval unsymmetrical, mostly 2–3 centimeters long. White pubescence.

217360. CASSIA sp.

L 25. Between Chihuahua City and Camargo, Mexico. Two leaflets.

217361. CASSIA sp.

L 27. Between Chihuahua City and Camargo, Mexico. Two leaflets.

217362. CASSIA sp.

L 36. Ten miles east of Saltillo, Coahuila, Mexico. Small perennial.

217363. CROTALARIA sp. Fabaceae.

L 43. Between Torreon and Durango City, Mexico.

217364 to 217369. DALEA LEPORINA (Ait.) Bullock. Fabaceae. Mexico.

217364. L 24. Between Chihuahua City and Cuauhtemoc.

217365. L 28. North of Durango City. Annual.

217366. L 29. North of Durango City. Flowers pale lavender.

217367. L 33. South of Durango City.

217368. L 34. South of Durango City. Petals violet.

217369. L 44. Between Torreon and Durango City.

217370. DALEA TERMINALIS M. E. Jones.

L 26. Between Chihuahua City and Camargo, Mexico.

217371 to 217376. Mexico.

217371. DALEA sp.

L 30. North of Durango City. Plant woody. Petals dark red.

217372. DALEA sp.

L 32. Near *D. tinctoria*. North of Durango City.

**216052 to 217384—Continued****217355 to 217384—Continued****217371 to 217376—Continued**217373. *DALEA* sp.

L 35. South of Durango City. Shrub about 3 feet high; petals violet or red.

217374. *DALEA* sp.

L 37. Fifteen miles east of Saltillo, Coahuila. Altitude 6,000 feet. Shrub. Petals violet.

217375. *DALEA* sp.

L 42. Between Torreon and Durango City. Woody, rapid-growing plant.

217376. *DALEA* sp.

L 45. Between Durango City and Parral.

217377 and 217378. *DESMANTHUS VIRGATUS* Willd. Mimosaceae.

217377. L 23. North of Chihuahua City, Mexico.

217378. L 39. South of Monterrey, Nuevo Leon, Mexico. Altitude 1,800 feet.

217379. *DESMANTHUS* sp.

L 41. Between Torreon and Durango City, Mexico; heavily grazed.

217380 and 217381. *EYSENHARDTIA POLYSTACHYA* (Ortega) Sarg. Fabaceae.

217380. L 31. North of Durango City, Mexico. Thornless shrub about 1 meter tall. Corolla white.

217381. L 40. North of Monterrey, Nuevo Leon, Mexico.

217382. *PSORALEA FLORIBUNDA* Nutt. Fabaceae.

L 19. Twenty miles north of Shafter, Tex. Altitude 5,460 feet.

217383. *RHYNCHOSIA* sp. Fabaceae.L 38. Near *R. minima*. South of Monterrey, Nuevo Leon, Mexico. Altitude 1,800 feet.217384. *TRIFOLIUM* sp. Fabaceae.

L 46. Between Durango City and Torreon, Mexico.

**217385 to 217387. CORYLUS AVELLANA L. Betulaceae. Hazelnut.**

From Germany. Plants presented by Baumschule Hermann A. Hesse, Ostfriesland. Received Apr. 30, 1954.

217385. *Landsberger Lange*.217386. *Längliche Riesennub*.217387. *Vollkugel*.**217388. LINUM USITATISSIMUM L. Linaceae. Flax.**

From Australia. Seeds presented by the Department of Commerce and Agriculture, Melbourne, Victoria. Received Apr. 30, 1954.

*Ventnor*.**217389. CRYPTOSTEGIA GRANDIFLORA R. Br. Asclepiadaceae.**

From Haiti. Seeds collected by Arthur W. Bechtel, Rubber Plant Field Station, Marfranc, Jeremie. Received Apr. 30, 1954.

From Gonaives.

**217390. OPERCULINA TUBEROSA (L.) Meisn. Convolvulaceae.**

From Angola. Seeds presented by the American Consulate, Luanda. Received Apr. 30, 1954.

**217391. SOLANUM. Solanaceae.**

From England. Tubers presented by H. S. Howard, Plant Breeding Institute, Cambridge. Received May 3, 1954.

*Sherry Champion* × *Shamrock*.

**217392 to 217403. TRIFOLIUM MEDIUM Huds. Fabaceae.**

**Mammoth clover.**

From Sweden. Seeds presented by the Sveriges Utsadesforenings Ultunafilial, Uppsala. Received May 3, 1954.

217392. From Sunnersta, Uppland.

217398. From Kalman.

217393. From Eke, Gotland.

217399. From Sjogestad.

217394. From Ultuna.

217400. From Kolback.

217395. From Lejondal, Uppland.

217401. From Avesta.

217396. From Ansio.

217302. From Koping.

217397. From Lindorid, Skane.

217403. From Vickleby, Oland.

**217404 to 217413. ZEA MAYS L. Poaceae.**

**Corn.**

From Iowa. Seeds planted at the Regional Plant Introduction Station, Ames. Numbered May 4, 1954.

Varieties showing extreme variation.

The following types and varieties are considered endemic and are maintained as germplasm for breeding work.

Open-pollinated.

217404. *Argentine Pop.* A small-eared, tiny-kernelled, prolific variety from the Argentine. Red pericarp. Similar to the grave popcorns of Argentina.

217405. *Gourdseed.* The extreme white dent corn from the southern United States, which is one of the ancestors of modern United States varieties.

217406. *"Japanese Hull-less."* Neither Japanese nor hull-less. High quality rice popcorn very similar to the ancient popcorns of Mexico City. Low knob numbers. Difficult to smear. High row number; ears more or less fasciated.

217407. *Ladyfinger.* A late-maturing, prolific, high quality popcorn, very similar to the ancient popcorns of Peruvian graves.

217408. *Longfellow Flint.* A typical yellow 8-rowed Northern Flint.

217409. *Maiz Chapolote.* Primitive popcorn from western Mexico. Shows close similarity to teosinte in various characters. Narrow cob, irregular kernel shape, brown pericarp. Large knobs, variable in number from plant to plant.

217410. *Papago Flour Corn.* Obtained from the Papago Indians in the desert south of Tucson, Arizona. Yellow flour corn of high quality for human food. Drought resistant; early maturing in late plantings; slender leaves, long mesocotyl.

217411. *Tama Flint.* Essentially a northern flint variety from the Sac and Fox Indians in Iowa. Slightly mixed with Great Plains maize.

217412. *Tom Thumb.* Very early and small-eared.

217413. *Zapalote Chico.* From southern Mexico, but comparatively independent of length of day; 8- to 10-rowed; very short ears; very dented kernels.



**217414 and 217415. ZEA MAYS L. Poaceae. Corn.**

From New York. Seeds planted at the Regional Introduction Station, Geneva. Numbered May 4, 1954.

The following types and varieties are considered endemic and are maintained as germplasm for breeding work.

Open-pollinated.

217414. *Drought Proof Yellow Dent*.

From Julian Hovermale, Berkeley Springs, W. Va.

217415. *Drought Proof Yellow Dent*.

From Boyd Kesecker, Cherry Run, W. Va.

**217416 to 217419.**

From Denmark. Seeds presented by L. Doehnfeldt, Odense. Received May 4, 1954.

217416. *DACTYLIS GLOMERATA L. Poaceae. Orchard grass.*

*Daeno II.*

217417. *FESTUCA ELATIOR L. Poaceae. Meadow fescue.*

*Hinderupgaard II.*

217418. *FESTUCA RUBRA L. Red fescue.*

*Doehnfeldt.*

217419. *MEDICAGO SATIVA L. Fabaceae. Alfalfa.*

*Lucerne Doehnfeldt.*

**217420 to 217422.**

From Pakistan. Collected by H. S. Gentry and E. E. Smith, Agricultural Explorers, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 4, 1954.

217420. *POA BULBOSA L. Poaceae.*

No. 14090. Near Parichinar, northwest frontier province. Altitude 5,000 feet. Small perennial growing on rocky slopes. (Roots.)

217421. (Undetermined.)

No. 14078. *Chaunga; Panakai*. Market, Thal, northwest frontier province. Apr. 22, 1954. Succulent herb gathered from hills and sold in market, boiled as a pot herb after crushing and washing in salt water to eliminate bitter taste. (Plants.)

217422. (Undetermined.)

No. 14093. Parichinar, Kurram Valley, northwest frontier province. Apr. 22, 1954. Altitude 5,700 feet. Low herb with white-margined leaves and tuberous roots below bulbs. (Bulbs.)

**217423 and 217424.**

From England. Seeds presented by Dunns Farm Seeds Ltd., Salisbury. Received May 4, 1954.

217423. *FESTUCA ELATIOR L. Poaceae. Meadow fescue.*

217424. *FESTUCA RUBRA L. Red fescue.*

**217425. SPINACIA OLERACEA L. Chenopodiaceae. Spinach.**

From Korea. Seeds presented by Lowell A. Mullen, Regional Plant Introduction Station, Pullman, Wash. Received May 5, 1954.

Collected by Lt. Col. J. B. Morehead, United States Army.



## 217426 to 217430.

From England. Seeds presented by Gartons Limited, Warrington. Received May 5, 1954.

217426. *DACTYLIS GLOMERATA* L. Poaceae. Orchard grass.

No. 1116. A superior strain of *Leafy Cocksfoot*; it produces more herbage than any other strain.

217427. *FESTUCA ELATIOR* L. Poaceae. Meadow fescue.

No. 89. A rust-resistant strain.

217428 and 217429. *LOLIUM PERENNE* L. Poaceae. Perennial ryegrass.

217428. No. 1198. This belongs to the same category as *Kent Indigenus*, but produces denser herbage.

217429. No. 187. A very leafy and persistent strain, earlier and more robust than *Leafy Pasture Strain*.

217430. *PHLEUM PRATENSE* L. Poaceae. Timothy.

No. 125. A distinct timothy, more leafy and more prostrate than *S.48*, and a little later to head.

## 217431 to 217435.

From England. Presented by the Royal Botanic Gardens, Kew, Surrey. Received May 5, 1954.

217431. *ARUNDINARIA ANCEPS* Mitf. Poaceae. Bamboo.

Starts.

217432. *CHIMONOBAMBUSA FALCATA* (Nees) Nakai. Poaceae. Bamboo.

Starts.

217433. *THAMNOCALAMUS FALCONERI* Hook. f. Poaceae. Bamboo.

Clump.

217434. *SINARUNDINARIA MURIELAE* (Gamble) Nakai. Poaceae. Bamboo.

Clump.

217435. *SINARUNDINARIA NITIDA* (Mitf.) Nakai.

217436. *ASPARAGUS OFFICINALIS* L. Convallariaceae.

From Iran. Crown collected by Henry C. Lint, Agricultural Attaché, American Embassy, Tehran. Received May 5, 1954.

Collected at Arak.

## 217437 to 217444.

From Italy. Seeds presented by the Istituto Nazionale di Genetica per la Cerealicoltura, Rome. Received May 7, 1954.

217437. *DACTYLIS GLOMERATA* L. Poaceae. Orchard grass.

217438. *HORDEUM BULBOSUM* L. Poaceae.

217439. *LOLIUM PERENNE* L. Poaceae. Perennial ryegrass.

217440. *PHALARIS MINOR* Retz. Poaceae.

217441. *PHALARIS TUBEROSA* L. Large canary grass.

217442. *ALOPECURUS* sp. Poaceae.

217443. *PINUS PINEA* L. Pinaceae. Pine.

217444. *TRIFOLIUM REPENS* L. Fabaceae. White clover.

**217445 to 217447. DIOSCOREA spp. Dioscoreaceae.**

From Bolivia. Tubers collected by M. Cardenas, Santa Cruz. Received May 7, 1954.

217445. DIOSCOREA sp.

No. 1. North of San Ignacio de Velasco. March 1954.

217446. DIOSCOREA sp.

No. 2. San Ignacio de Velasco. *Papa Aerea*. Cultivated and eaten as potato. March 1954.

217447. DIOSCOREA sp.

No. 3. San Ignacio de Velasco. Chiquitano Indians call this "Tancapi." Eaten in place of cassava.

**217448 to 217459.**

From Argentina. Seeds collected by H. Sleumer, University of Tucuman, Tucuman. Received May 7, 1954.

217448. SOLANUM ANDIGENUM Juz. & Buk. Solanaceae.

217449 and 217450. SOLANUM DEPEXUM Juz.

217449. No. 1.

217450. No. 4114.

217451. SOLANUM SUBTILIUS Bitt.

No. 3566.

217452. SOLANUM sp.

No. 2688. Received as *Solanum venturii*, an apparently unpublished name.

217453. SOLANUM sp.

No. 3748.

217454. SOLANUM sp.

No. 3786.

217455. SOLANUM sp.

No. 3998.

217456. SOLANUM sp.

No. 3999.

217457. SOLANUM sp.

No. 4002.

217458. SOLANUM sp.

No. 4024.

217459. SOLANUM sp.

No. 4105.

**217460 to 217479. ZEA MAYS L. Poaceae.**

**Corn.**

From New York. Seeds planted at the Regional Plant Introduction Station. Geneva. Numbered May 10, 1954.

P.I. No.	Cornell No.	Type or variety	Origin
217460.	47-5337	King Philip	New Milford, Pa.
217461.	47-5338	King Philip	Bangor, Pa.
217462.	47-5339	Rainbow	Frankfort, N.Y.

## 217460 to 217479—Continued

217463.	47-5340	<i>Eight Row</i>	Port Allegany, Pa.
217464.	47-5341	<i>Eight Row</i>	Mt. Vision, N.Y.
217465.	47-5342	<i>Eight Row</i>	Greentown, Pa.
217466.	47-5343	<i>Flint</i>	Carthage, N.Y.
217467.	47-5344	<i>Flint</i>	Fulton, N.Y.
217468.	47-5345	<i>Flint</i>	Auburn, N.Y.
217469.	47-5346	<i>Flint</i>	Dallas, Pa.
217470.	47-5347	<i>Golden Flint</i>	Carthage, N.Y.
217471.	47-5348	<i>Yellow Flint</i>	Greentown, Pa.
217472.	47-5349	<i>Early Butler</i>	Rushville, N.Y.
217473.	47-5350	<i>Early Butler</i>	Grand Valley, Pa.
217474.	47-5351	<i>Lycoming</i>	Elbridge, N.Y.
217475.	47-5352	<i>Northern Wonder</i>	Hackettstown, N.J.
217476.	47-5353	<i>Pride of Michigan</i>	Churchville, N.Y.
217477.	47-5354	<i>Red Robin</i>	Cassadaga, N.Y.
217478.	47-5355	<i>Red Robin</i>	Venango, Pa.
217479.	47-5356	<i>Red Field</i>	Montour Falls, N.Y.

## 217480 to 217493. ZEA MAYS L. Poaceae.

Corn.

From Iowa. Seeds planted at the Regional Plant Introduction Station, Ames.  
Numbered May 10, 1954.

Originally from Fort Collins, Col., in 1918.

The following types and varieties are considered endemic and are maintained as germ plasm for breeding work.

Open-pollinated.

217480.	<i>Northwestern Dent.</i>	217487.	<i>Squaw Corn.</i>
217481.	<i>Windus White Dent.</i>	217488.	Row 6.
217482.	<i>Amber Flint.</i>	217489.	Row 8.
217483.	<i>Gehu Flint.</i>	217490.	Row 13.
217484.	<i>Windus Red Cob.</i>	217491.	<i>White Flint.</i> Row 14.
217485.	<i>Thayer Yellow Dent.</i>	217492.	<i>Flint.</i>
217486.	<i>Dakota Flint.</i>	217493.	<i>Yellow Dent.</i>

## 217494 to 217496. ARACHIS HYPOGAEA L. Fabaceae.

Common peanut.

From Israel. Seeds presented by the Agricultural Research Station, Plant Introduction Service, Rehovot. Received May 10, 1954.

217494.	No. 33.	<i>Rehoboth 33</i> , an improved Spanish type.
217495.	No. 61.	Bunchy type.
217496.	No. 62.	<i>Variety 24-11</i> . Runner type.

## 217497 to 217499.

From China. Scions collected by J. E. Flanders, Taipo, Hong Kong. Received May 10, 1954.

217497.	CITRUS GRANDIS (L.) Osbeck.	Rutaceae.	Pummelo.
Seedling at Hong Lok Yuen near Taipo market.			

## 217497 to 217499—Continued

217498. CITRUS MEDICA L. Citron.

Garden of St. Christopher Home, Taipo.

217499. FORTUNELLA JAPONICA (Thunb.) Swingle. Rutaceae. Kumquat.  
Taipo market.

## 217500. POA BULBOSA L. Poaceae.

From Pakistan. Bulblets collected by H. S. Gentry and E. E. Smith, Agricultural Explorers, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 11, 1954.

No. 14172. Saidu, Sivat. Altitude 3,000 feet. Rocky slope of micaceous schist.

## 217501 to 217510.

From Denmark. Seeds presented by Landboforeningers Frøforsyning, Roskilde. Received May 11, 1954.

217501 and 217502. DACTYLIS GLOMERATA L. Poaceae. Orchard grass.

217501. Roskilde Late II.

217502. Roskilde II.

217503 and 217504. FESTUCA ELATIOR L. Poaceae. Meadow fescue.

217503. Meadow fescue Otofse II.

217504. Otofse Early II.

217505. PHLEUM PRATENSE L. Poaceae. Timothy.

Otofse II.

217506 to 217509. TRIFOLIUM PRATENSE L. Fabaceae. Red clover.

217506. Early Otofse III.

217507. Early Otofse III. Resistant.

217508. Halfslase Otofse III.

217509. Halfslase Otofse III. Resistant.

217510. TRIFOLIUM REPENS L. White clover.

Lodi. Otofse IX and V.

## 217511 to 217547.

From Pakistan. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 12, 1954.

Unless otherwise mentioned seeds are from the Punjab Agricultural College and Research Institute, Lyallpur, Punjab. Mar. 31 to Apr. 4, 1954.

217511. HIBISCUS ESCULENTUS L. Malvaceae. Okra.

No. 13912. Lady's Fingers No. 13. Local variety beginning yield in 30 days; fruits smooth, glabrous. Susceptible to root rot.

217512. AVENA sp. Poaceae.

No. 13938. Field near Lyallpur, Punjab. Sandy loam.

217513. BENINCASA HISPIDA (Thunb.) Cogn. Cucurbitaceae. Waxgourd.

No. 13906. Ash Gourd; Petha Kadder. Vine cultivated for its large pumpkin-like oblong fruits.

217514. BRASSICA CAMPESTRIS L. Brassicaceae.

No. 13928. Toria; selection A. Winter annual; oilseed.



## 217511 to 217547—Continued

217515. *BRASSICA CAMPESTRIS* var. *SARSON* Prain. Sarson.  
No. 13929. *Brown Sarson A.* Winter annual. Cultivated as oilseed.
217516. *BRASSICA JUNCEA* (L.) Coss. Chinese mustard.  
No. 13931. *Raya L-18.* Winter annual grown as oilseed.
217517. *BRASSICA OLERACEA* var. *BOTRYTIS* L. Cauliflower.  
No. 13913. Local variety.
217518. *BRASSICA CAMPESTRIS* var. *SARSON* Prain. Sarson.  
No. 13932. *Yellow Sarson L-1.* Winter annual grown as oilseed.
- 217519 to 217521. *CICER ARIETINUM* L. Fabaceae. Chickpea.
217519. No. 13920. *Gram C612.* Highly resistant to gram blight, fairly resistant to wilt and drought. Dryfarmed on sandy soils.
217520. No. 13921. *Gram C12/34.* On nonirrigated sandy soils. Resistant to gram blight.
217521. No. 13922. *Gram Pb. 7.* High yielding but susceptible to gram blight.
217522. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. Watermelon.  
No. 13904. *Tinda Gourd.* Fruit small and round like a golf ball. Eaten as a table squash.
- 217523 to 217526. *CUCUMIS MELO* L. Cucurbitaceae. Muskmelon.
217523. No. 13908. No. 376.
217524. No. 13909. No. 85-1. Irrigated. Planted in small quadrans at furrow edge.
217525. No. 13911. No. 374. Irrigated.
217526. No. 13910. No. 194. Irrigated.
217527. *DAUCUS CAROTA* L. Apiaceae. Carrot.  
No. 13915. No. 29. Local variety; root tapering, reddish yellow.
217528. *ERIOBOTRYA JAPONICA* (Thunb.) Lindl. Rosaceae. Loquat.  
No. 13885. *Loquat.* Fodder Research Station, Sargoda, Punjab.
217529. *ERUCA SATIVA* Mill. Brassicaceae. Salad-rocket.  
No. 13930. *Taramira. A.* Winter annual grown on sandy soils; an oilseed crop.
217530. *FRAGARIA* sp. Rosaceae. Strawberry.  
No. 13901. Reported as a wild species introduced from the mountains of Pakistan for breeding purposes. Fruits rounded, of fair size.
217531. *FRAGARIA* sp.
- No. 13902. Fruits more pointed than preceding (P. I. 217530).
217532. *HORDEUM* sp. Poaceae. Barley.  
No. 13918. C141. Winter dry-farmed on sandy soils.
217533. *HORDEUM* sp.  
No. 13919. Type 5. Winter dry-farmed on sandy soils.
217534. *HORDEUM* sp.  
No. 13936. Field near Lyallpur, Punjab. Red-topped barley.
217535. *HORDEUM* sp.  
No. 13937. Field near Lyallpur, Punjab.

## 217511 to 217547—Continued

217536. *HORDEUM* sp.

No. 13939. Field near Lyallpur, Punjab.

217537. *LINUM USITATISSIMUM* L. Linaceae.

Flax.

No. 19535. T5. Local variety developed for oil.

217538. *PENNISETUM SPICATUM* (L.) Willd. Poaceae.

Pearl millet.

No. 13917. *Bajra*. - A1/3. Improved variety with unusually long spikes. Summer dry-farmed on sandy soils.217539. *RICINUS COMMUNIS* L. Euphorbiaceae.

Castorbean.

No. 13933. No. 809.

217540. *SESAMUM INDICUM* L. Pedaliaceae.

Sesame.

No. 13934. T5.

217541. *SESBANIA SESBAN* (L.) Merr. Fabaceae.

No. 13899. Quick-growing perennial shrub 15–20 feet tall. Used as shade plant in nurseries.

217542 and 217543. *TRIFOLIUM ALEXANDRINUM* L. Fabaceae. Berseem.

217542. No. 13886. Fodder Research Station, Sargoda, Punjab. Silty loam soil. Annual irrigated forage crop intensely cultivated.

217543. No. 13887. Frontier variety. Fodder Research Station, Sargoda, Punjab. Silty loam.

217544 to 217547. *TRITICUM AESTIVUM* L. Poaceae.

Common wheat.

217544. No. 13940. Fields near Lyallpur, Punjab. Sandy loam. Irrigated hard winter wheat.

217545. No. 13925. C518. Irrigated hard winter wheat; highest yielder.

217546. No. 13926. C250. An irrigated hard winter wheat; rust-resistant.

217547. No. 13927. C217. Hard winter wheat; suitable for nonirrigated areas.

217548. *HIBISCUS CANNABINUS* L. Malvaceae.

Kenaf.

From Indonesia. Seeds collected by Robert I. Jackson, United States Operations Mission to Indonesia, Djakarta. Received May 12, 1954. From Bogor.

217549. *VICIA GRAMINEA* J. E. Sm. Fabaceae.

From Australia. Seeds presented by William Hartley, Division of Plant Industry, Canberra. Received May 12, 1954.

Originally from Dr. B. Rosengurtt, Campo Experimental de Pastos, Estancia Ricon de Santa Elena, Uruguay.

217550. *RUBUS* sp. Rosaceae.

Wild raspberry.

From the Union of South Africa. Seeds collected by J. Leslie Parkhouse, Wonderhoogte Farm, Utrecht, Natal. Received May 12, 1954.

Zulu.

217551 to 217555.

From England. Seeds presented by the Dunns Farm Seeds Ltd., Salisbury. Received May 12, 1954.

217551 and 217552. *DACTYLIS GLOMERATA* L. Poaceae.

Orchard grass.

217551. S-37.

217552. S-143.

**217551 to 217555—Continued**

217553. *FESTUCA ELATIOR* L. Poaceae. Meadow fescue.  
S-215.  
217554 and 217555. *PHLEUM PRATENSE* L. Poaceae. Timothy.  
217554. S-48.  
217555. S-51.

**217556 to 217559.**

From India. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 13, 1954.

From Babbur Farm, Hiriyyur, Mysore. (No notes.)

217556. *GOSSYPIUM*. Malvaceae. Cotton.  
217557 to 217559. *RICINUS COMMUNIS* L. Euphorbiaceae. Castorbean.  
217557. H.C. 6.  
217558. M.C. 1.  
217559. *Rosy*.

**217560. SOLANUM TUBEROSUM L. Solanaceae. Potato.**

From the Netherlands. Tubers presented by Wolf & Wolf N. V., Groningen. Received May 13, 1954.

*Urgenta*.

**217561 to 217578.**

From Australia. Seeds presented by William Hartley, Division of Plant Industry, Canberra. Received May 14, 1954.

217561. *ALOPECURUS UTRICULATUS* Banks & Solander. Poaceae.  
C.P.I. 15556. Originally from Neve Yaar, Israel.  
217562. *CORYNEPHORUS FASCICULATUS* Boiss. & Reut. Poaceae.  
C.P.I. 14400. Originally from Portugal.  
217563. *CORYNEPHORUS* sp.  
C.P.I. 14707. Originally from Morocco.  
217564 and 217565. *DANTHONIA CALIFORNICA* Boland. Poaceae.  
217564. C.P.I. 12132c.  
217565. C.P.I. 13132.  
217566. *DANTHONIA CURVA* Nees.  
C.P.I. 16772. Originally from Worcester, South Africa.  
217567. *DANTHONIA FORSKALLII* Trin.  
C.P.I. 14761. Originally from Israel.  
217568. *DANTHONIA FRIGIDA* Vickery.  
C.P.I. N411. Originally from Mountain Kosciusko, New South Wales.  
217569. *DANTHONIA* sp.  
C.P.I. N346. Originally from Deniliquin, New South Wales. Received as *Danthonia minutiflora*, an apparently unpublished species.  
217570. *DANTHONIA PALLIDA* R. Br.  
C.P.I. C366.

**217561 to 217578—Continued**

217571. *DANTHONIA PENICILLATA* (Labill.) Beauv.

C.P.I. C354.

217572. *DANTHONIA SEMIANNULARIS* (Labill.) R. Br.

C.P.I. N471. Originally from Deniliquin, New South Wales.

217573. *DANTHONIA* sp.

C.P.I. N449. Originally from Mount Kosciusko, New South Wales.

217574. *HELICOTRICHON PUBESCENS* (Huds.) Pilger. Poaceae.

C.P.I. 7706. Originally from Ontario, Canada.

217575 to 217577. *HOLCUS LANATUS* L. Poaceae.

217575. C.P.I. 14408. Originally from Portugal.

217576. C.P.I. 15143. Originally from France.

217577. C.P.I. V50.

217578. *HOLCUS SETIGLUMIS* Boiss. & Reut.

C.P.I. 14409. Originally from Portugal.

**217579 and 217580.**

From Japan. Presented by K. Matsuoka, Shikoku Agricultural Experiment Station, Zentsuji, Kagawa. Received May 14, 1954.

217579. *RUBUS PSEUDO-SIEBOLDII* Makino. Rosaceae.

(Plants.)

217580. *RUBUS TRIFIDUS* Thunb.

(Root cuttings.)

**217581 to 217641.**

From India. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 17, 1954.

Unless otherwise mentioned seeds are from Coonoor, Nilgiri Hills. March 1954. Altitude 5,000–6,000 feet. Rainfall 60 inches.

217581. *AGROPYRON* sp. Poaceae.

No. 13781. Tender-leaved perennial.

217582. *BROMUS CATHARTICUS* Vahl. Poaceae.

No. 13775. Moist lateritic soil; grassland. Leafy perennial grass forming sod.

217583. *BROMUS CATHARTICUS* Vahl.

No. 13799. Perennial in colonies forming a leafy cover in protected areas.

217584. *AGROSTIS* sp. Poaceae.

No. 13813. Delicate perennial.

217585. *AGROSTIS* sp.

No. 13859. Dodo Betta Mountain near Ootacamund. Altitude 8,000 feet. Delicate perennial on clay slope.

217586. *ANDROPOGON* sp. Poaceae.

No. 13806. Perennial with spreading leaves and sagging culms.

217587. *ANDROPOGON* sp.

No. 13810. Perennial with tufted base; used as soil builder on terraces.



## 217581 to 217641—Continued

217588. *ANDROPOGON* sp.

No. 13798. Perennial with depressed leaves and sagging culms.

217589. *ANDROPOGON* sp.

No. 13860. Dodo Betta Mountain near Ootacamund. Altitude 8,000 feet. Perennial forming tight leafy sod.

217590 and 217591. *BRACHIARIA ERUCAEFORMIS* (J. E. Sm.) Griseb. Poaceae.

217590. No. 13783. Small wayside perennial.

217591. No. 13789. Slender, cespitose perennial growing on partly shaded bank.

217592. *BRIZA MAXIMA* L. Poaceae.

No. 13803. Pomological Station, Coonoor, Nilgiri Hills. Annual with large heads.

217593. *BROMUS CATHARTICUS* Vahl. Poaceae.

No. 13862. Botanical Garden, Ootacamund. Small perennial growing up through low hedge.

217594. *CASSIA DIDYMOBOTRYA* Fres. Caesalpiniaceae.

No. 13808. Ornamental shrub with spikes of shiny yellow flowers.

217595. *CASSIA MIMOSOIDES* L.

No. 13818. Nonesuch Tea Estate, Nilgiri Hills. Altitude 6,000 feet. Rainfall 60 inches. Perennial, locally wild and being used as a soil builder.

217596. *CHRYSOPOGON* sp. Poaceae.

No. 13790. Perennial with rather tough but palatable leaves.

217597. *CROTALARIA* sp. Fabaceae.

No. 13821. Nonesuch Tea Estate, Nilgiri Hills. Altitude 6,000 feet. Rainfall 60 inches. Small spreading tree used as ornamental and soil builder.

217598. *CROTALARIA* sp.

No. 13823. Nonesuch Tea Estate, Nilgiri Hills. Altitude 6,000 feet. Rainfall 60 inches. Monopodial shrub with large leaflets; used as soil builder on slopes.

217599. *CUCUMIS MELO* L. Cucurbitaceae. Muskmelon.

No. 13773. Market, Bangalore, Mysore. Fruit depressed, whitish, round, 5 inches in diameter; flesh insipid.

217600. *CUPRESSUS* sp. Pinaceae.

Cypress.

No. 13777. Large tree 60 feet tall with drooping foliage.

217601. *CUPRESSUS* sp.

No. 13778. Cultivated for hedges.

217602. *DANTHONIA* sp. Poaceae.

No. 13812. Perennial with long culms; shady, moist bank.

217603. *DANTHONIA* sp.

No. 13850. Dodo Betta Mountains, Ootacamund. Altitude 8,000 feet. Delicate perennial.

217604. *TRISETUM* sp.

No. 13858. Dodo Betta Mountain, Ootacamund. Altitude 8,000 feet. Perennial with small foliage.

## 217581 to 217641—Continued

217605. *DIGITARIA* sp. Poaceae.

No. 13788. Low spreading, rather succulent perennial.

217606. *DOLICHOS LABLAB* L. Fabaceae.

**Hyacinth-bean.**

No. 13876. Market, Coonoor, Nilgiri Hills. Black variety, locally cultivated.

217607. *ELAEOCARPUS SPHAERICUS* (Gaertn.) K. Schum. Elaeocarpaceae.

No. 13817. Sims Park, Coonoor, Nilgiri Hills. Forms a large tree.

217608. *ELEUSINE CORACANA* (L.) Gaertn. Poaceae. **African millet.**

No. 13880. Market, Coonoor, Nilgiri Hills.

217609. *ELEUSINE INDICA* (L.) Gaertn.

No. 13795. Stoloniferous, sod grass forming tight, thick, continuous, low cover; liked by cattle.

217610. *ERAGROSTIS NIGRA* Nees. Poaceae.

No. 13800. Pomological Station, Coonoor, Nilgiri Hills. Introduced perennial used as soil binder.

217611. *ERAGROSTIS TENUIFOLIA* Hochst.

No. 13776. Low, turf-forming perennial grass.

217612. *ERAGROSTIS NIGRA* Nees.

No. 13782. Small perennial growing along paths.

217613. *ERAGROSTIS* sp.

No. 13785. Erect annual.

217614. *ERAGROSTIS NIGRA* Nees.

No. 13786. Perennial with spreading leafy base.

217615. *ERAGROSTIS* sp.

No. 13794. Perennial with yellowish-green leaves.

217616. *ERAGROSTIS CHARIIS* (Schult.) Hitchc.

No. 13797. Perennial with spreading, bluish-green narrow leaves.

217617. *ERAGROSTIS* sp.

No. 13819. Nonesuch Tea Estate, Nilgiri Hills. Altitude 6,000 feet. On dry exposed volcanic rock. Small drought-resistant perennial.

217618. *FESTUCA MYUROS* L. Poaceae.

No. 13792. Perennial with thin tender leaves.

217619. *HETEROPOGON* sp. Poaceae.

No. 13815. Perennial with arching culms 24 inches long.

217620. *BERBERIS* sp. Berberidaceae. **Barberry.**

No. 13855. *Mahogany*. Dodo Betta Mountains, Ootacamund. Low spreading tree. Said eventually to make large timber trees with fine-textured wood.

217621. *INDIGOFERA* sp. Fabaceae.

No. 13864. Pollibetta, Coorg. Leafy shrub about 2 feet high. Used as soil builder.

217622. *PASPALUM* sp. Poaceae.

No. 13804. Perennial with broad, soft spreading leaves.

## 217581 to 217641—Continued

217623. *PASPALUM* sp.

No. 13811. Perennial with broad spreading leaves; used as a soil builder on terraces.

217624. *PHASEOLUS VULGARIS* L. Fabaceae.

Common bean.

No. 13874. *Cote*. Market, Coonoor, Nilgiri Hills. Variegated long beans.

217625. *POA* sp. Poaceae.

No. 13784. Used as lawn grass.

217626. *RHODODENDRON ARBOREUM* J.E. Sm. Ericaceae.

No. 13851. Dodo Betta Mountain, near Ootacamund. Altitude 8,000 feet. Forms large gnarled shrubs 15 feet tall, with dark-red flowers.

217627. *RHODOMYRTUS TOMENTOSA* (Ait.) Hassk. Myrtaceae.

No. 13856. *Hill Goa*. Dodo Betta Mountain, near Ootacamund. Altitude 8,000 feet. Woody shrub with edible fruits.

217628. *RUBUS* sp. Rosaceae.

No. 13774. *Raspberry*. Bangalore, Mysore. Local variety cultivated about Bangalore. Fruits dark purple with glaucous bloom.

217629. *RUBUS* sp.

No. 13822. Nonesuch Tea Estate, Nilgiri Hills. Altitude 6,000 feet. Rainfall 60 inches. Clambering, with small, yellow, edible fruits.

217630. *RUBUS* sp.

No. 13835. Korakhunda Estate, Nilgiri Hills. Wide-spreading shrub with yellow fruits.

217631. *SORGHUM VULGARE* Pers. Poaceae.

No. 13878. Market, Coonoor, Nilgiri Hills.

217632. *SPOROBOLUS POIRETII* (Roem. & Schult.) Hitch. Poaceae.

No. 13796. Bunchy perennial with thick, rather soft leaves.

217633. *BROMUS* sp. Poaceae.

No. 13839. Korakhunda Estate, Nilgiri Hills. Altitude 8,000 feet.

217634. *TEPHROSIA VOGELII* Hook. f. Fabaceae.

No. 13820. Nonesuch Tea Estate, Nilgiri Hills. Altitude 6,000 feet. Rainfall 60 inches. Bushy perennial used as soil builder and soil binder.

217635. *TEPHROSIA* sp.

No. 13863. Pollibetta, Coorg. Cultivated in coffee plantations as soil builder.

217636. *TRIFOLIUM* sp. Fabaceae. Clover.

No. 13802. Pomological Station, Coonoor, Nilgiri Hills. Erect, bushy with crimson flowers. Introduced from Australia.

217637 and 217638. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.

217637. No. 13825. Twenty miles southwest of Coonoor, Nilgiri Hills. Long heads, small grain, long stalks.

217638. No. 13881. Market, Coonoor, Nilgiri Hills.

217639 and 217640. *TRITICUM DICOCCUM* Schrank.

Emmer.

217639. No. 13879. Market, Coonoor, Nilgiri Hills.

217640. No. 13882. Market, Coonoor, Nilgiri Hills.

217641. *WATSONIA PYRAMIDATA* (Andr.) Klatt. Iridaceae.

No. 13829. Korkahunda Estate, Nilgiri Hills. Rank growing, flowering most of year. Flowers pink.



**217642. ZEA MAYS L. Poaceae. Corn.**

From Afghanistan. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Jan. 27, 1954. Numbered May 17, 1954.

No. 13119. Momokhil, Jalalabad Province. Yellow seeds.

**217643. PHASEOLUS AUREUS Roxb. Fabaceae. Mung bean.**

From Peru. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 17, 1954.

**217644. CUCUMIS SATIVUS L. Cucurbitaceae. Cucumber.**

From India. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 17, 1954.

No. 13765. Market seed store, Delhi. Mar. 6, 1954.

**217645. CHLORIS PYCNOTHRIX Trin. Poaceae.**

From Madagascar. Seeds presented by the Soil Conservation Bureau, Tananarive. Received May 17, 1954.

**217646. ZIZYPHUS NUMMULARIA (Burm.) W. & A. Rhamnaceae.**

From India. Seeds presented by K. Biswas, Indian Botanical Garden, Calcutta. Received May 17, 1954.

**217647 and 217648. MEDICAGO spp. Fabaceae.**

From Iraq. Seeds collected by H. W. Springfield, U.S. Operations Mission to Iraq, Baghdad. Received May 18, 1954.

217647. *MEDICAGO RIGIDULA* (L.) Desr.

No. 57. Dry, rocky slope near Khanagin. May 1954. Altitude 600 feet.

217648. *MEDICAGO SATIVA* L. Alfalfa.

From western Iraq. Relatively resistant to wilts and nematodes; moderately tolerant of saline soils.

**217649 to 217893. SORGHUM VULGARE Pers. Poaceae.**

From Nebraska. Seeds presented by O. J. Webster, Agricultural Experiment Station, Lincoln. Received May 18, 1954.

Originally from the Rainlands Research Station, Wad-Medani, Anglo Egyptian Sudan.

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| 217649. No. 1. <i>Maga Agbash.</i>                         | 217661. No. 13. <i>Ein el Ga-ong.</i>   |
| 217650. No. 2. <i>Nyan Dok Early.</i>                      | 217662. No. 14. <i>Godo.</i>            |
| 217651. No. 3. <i>Keriariga.</i>                           | 217663. No. 15. <i>Otayo.</i>           |
| 217652. No. 4. <i>Culum Brick.</i>                         | 217664. No. 16. <i>Safra.</i>           |
| 217653. No. 5. <i>Imsak Maratak.</i>                       | 217665. No. 17. <i>Ageu.</i>            |
| 217654. No. 6. <i>Rahamatella.</i>                         | 217666. No. 18. <i>Um Shili Shilat.</i> |
| 217655. No. 7. <i>Tabroro White.</i>                       | 217667. No. 19. <i>Akwaich.</i>         |
| 217656. No. 8. <i>Tabla Hamra.</i>                         | 217668. No. 20. <i>Tirter.</i>          |
| 217657. No. 9. <i>Ankolib Red.</i>                         | 217669. No. 21. <i>Nyan Ja-ng.</i>      |
| 217658. No. 10. <i>Galb el Jackus</i><br>( <i>Jacks</i> ). | 217670. No. 22. <i>Akwoda.</i>          |
| 217659. No. 11. <i>Maluk.</i>                              | 217671. No. 23. <i>Chikkori.</i>        |
| 217660. No. 12. <i>Liyana.</i>                             | 217672. No. 24. <i>Ajak.</i>            |



## 217649 to 217893—Continued

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| 217673. No. 25. <i>Zanab el Faras.</i>                      | 217712. No. 64. <i>Nagad Blue.</i>                               |
| 217674. No. 26. <i>Beid el Kebish.</i>                      | 217713. No. 65. <i>Culum Abiad.</i>                              |
| 217675. No. 27. <i>Fanda Asfer</i><br>( <i>Asfar</i> ).     | 217714. No. 66. <i>Tabroro.</i>                                  |
| 217676. No. 28. <i>Tangosei.</i>                            | 217715. No. 67. <i>Wad el Gussair.</i>                           |
| 217677. No. 29. <i>Messeria.</i>                            | 217716. No. 68. <i>Kalati Consa</i><br>( <i>Calati</i> ).        |
| 217678. No. 30. <i>Tabla Beida.</i>                         | 217717. No. 69. <i>Merasi.</i>                                   |
| 217679. No. 31. <i>Culum Agbash</i><br>( <i>Clum</i> ).     | 217718. No. 70. <i>Wad Beshir.</i>                               |
| 217680. No. 32. <i>Agyin AD 11.</i>                         | 217719. No. 71. <i>Kadodok.</i>                                  |
| 217681. No. 33. <i>Dura el Jack.</i>                        | 217720. No. 72. <i>Tekeki.</i>                                   |
| 217682. No. 34. <i>Anganni.</i>                             | 217721. No. 73. <i>Bahana 5.</i>                                 |
| 217683. No. 35. <i>Shidadia.</i>                            | 217722. No. 74. <i>Bahana 4.</i>                                 |
| 217684. No. 36. <i>Birgalli Ahmer.</i>                      | 217723. No. 75. <i>Jangi.</i>                                    |
| 217685. No. 37. <i>Angway.</i>                              | 217724. No. 76. <i>Bangitaba.</i>                                |
| 217686. No. 38. <i>Maga Ahmer.</i>                          | 217725. No. 77. <i>Abu Kudur.</i>                                |
| 217687. No. 39. <i>Oro.</i>                                 | 217726. No. 78. <i>Kalili.</i>                                   |
| 217688. No. 40. <i>Barki.</i>                               | 217727. No. 79. <i>Ma-atuk</i><br>( <i>Feterita</i> ).           |
| 217689. No. 41. <i>Wad Akr Red.</i>                         | 217728. No. 80. <i>Ke-k.</i>                                     |
| 217690. No. 42. <i>Dura el Me-k.</i>                        | 217729. No. 81. <i>Wad Akr (Aker).</i>                           |
| 217691. No. 43. <i>Nagad el Mur.</i>                        | 217730. No. 82. <i>Harig II</i><br>( <i>Feterita</i> ).          |
| 217692. No. 44. <i>Tarano.</i>                              | 217731. No. 83. <i>Kafir Slangi.</i>                             |
| 217693. No. 45. <i>Bassa.</i>                               | 217732. No. 84. <i>Ankolib Tageel</i><br>( <i>Tageil</i> ).      |
| 217694. No. 46. <i>Ma-ga Abiad.</i>                         | 217733. No. 85. <i>Ankolib Black.</i>                            |
| 217695. No. 47. <i>Nilinili Yellow.</i>                     | 217734. No. 86. <i>Tingra.</i>                                   |
| 217696. No. 48. <i>Menda.</i>                               | 217735. No. 87. <i>Safari.</i>                                   |
| 217697. No. 49. <i>Maleit.</i>                              | 217736. No. 88. <i>La-mbas.</i>                                  |
| 217698. No. 50. <i>Hagud Yellow.</i>                        | 217737. No. 89. <i>Bahana 1.</i>                                 |
| 217699. No. 51. <i>Nagad Abiad.</i>                         | 217738. No. 90. <i>Ghalla White.</i>                             |
| 217700. No. 52. <i>Kigo.</i>                                | 217739. No. 91. <i>Gadoum el Teital.</i>                         |
| 217701. No. 53. <i>Kulum Oro.</i>                           | 217740. No. 92. <i>Rorok.</i>                                    |
| 217702. No. 54. <i>Nyan Dok.</i>                            | 217741. No. 93. <i>Klor.</i>                                     |
| 217703. No. 55. <i>Belig Speckled</i><br>( <i>Beling</i> ). | 217742. No. 94. <i>Gadam el</i><br><i>Hamam.</i>                 |
| 217704. No. 56. <i>Mawin Dok.</i>                           | 217743. No. 95. <i>Kodilik.</i>                                  |
| 217705. No. 57. <i>Babush.</i>                              | 217744. No. 96. <i>Kireniga.</i>                                 |
| 217706. No. 58. <i>Culum Ahmer.</i>                         | 217745. No. 97. <i>Abu Sari.</i>                                 |
| 217707. No. 59. <i>Robeih.</i>                              | 217746. No. 98. <i>Karinaka.</i>                                 |
| 217708. No. 60. <i>Sinidyil</i><br>( <i>Sindyil</i> ).      | 217747. No. 99. <i>Tilling.</i>                                  |
| 217709. No. 61. <i>Atamino.</i>                             | 217748. No. 100. <i>Gassabi</i><br><i>Istrahana (Istarhana).</i> |
| 217710. No. 62. <i>Akol.</i>                                |  |
| 217711. No. 63. <i>Parjalla.</i>                            |  |

## 217649 to 217893—Continued

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| 217749. No. 101. <i>Ras el Girid.</i>                  | 217785. No. 137. <i>Mosar.</i>                       |
| 217750. No. 102. <i>Rahamatella Singa.</i>             | 217786. No. 138. <i>Huria White.</i>                 |
| 217751. No. 103. <i>Dura Mahdi.</i>                    | 217787. No. 139. <i>Gbangi Unigwa.</i>               |
| 217752. No. 104. <i>Bazai.</i>                         | 217788. No. 140. <i>Gassabi.</i>                     |
| 217753. No. 105. <i>Wazn Ashara.</i>                   | 217789. No. 141. <i>Kokla.</i>                       |
| 217754. No. 106. <i>Higiri Mukwar (Hegiri).</i>        | 217790. No. 142. <i>Akedkwet (Akwedekwet).</i>       |
| 217755. No. 107. <i>Shabet.</i>                        | 217791. No. 143. <i>Wad Akr 2 (Aker).</i>            |
| 217756. No. 108. <i>Ba-rbari Orange.</i>               | 217792. No. 144. <i>Kalto.</i>                       |
| 217757. No. 109. <i>Zenari.</i>                        | 217793. No. 145. <i>Monshal.</i>                     |
| 217758. No. 110. <i>Darfuri Brown.</i>                 | 217794. No. 146. <i>Agono Akok.</i>                  |
| 217759. No. 111. <i>Degail.</i>                        | 217795. No. 147. <i>Aish el Gash (Aish al Gash).</i> |
| 217760. No. 112. <i>Fulli Dueim (Feterita).</i>        | 217796. No. 148. <i>Wad Musnid.</i>                  |
| 217761. No. 113. <i>Shemshem Red.</i>                  | 217797. No. 149. <i>El Robie.</i>                    |
| 217762. No. 114. <i>Zirzira.</i>                       | 217798. No. 150. <i>Lwel Koching.</i>                |
| 217763. No. 115. <i>Nagad Crimsi.</i>                  | 217799. No. 151. <i>Hegeri Seifi.</i>                |
| 217764. No. 116. <i>Safra Sabdarat.</i>                | 217800. No. 152. <i>DW. Managil (Feterita).</i>      |
| 217765. No. 117. <i>Gishnish.</i>                      | 217801. No. 153. <i>Wad el Gadaref.</i>              |
| 217766. No. 118. <i>She-mshem White.</i>               | 217802. No. 154. <i>Malwal Tonj.</i>                 |
| 217767. No. 119. <i>Shelshelly White (Shalshelly).</i> | 217803. No. 155. <i>Nagad.</i>                       |
| 217768. No. 120. <i>Suki (Feterita).</i>               | 217804. No. 156. <i>Hemaisi Yellow.</i>              |
| 217769. No. 121. <i>Keifallah.</i>                     | 217805. No. 157. <i>Shamsham.</i>                    |
| 217770. No. 122. <i>Bargowi.</i>                       | 217806. No. 158. <i>Gassabi Khafif.</i>              |
| 217771. No. 123. <i>Achillo.</i>                       | 217807. No. 159. <i>Mathinang Anyith.</i>            |
| 217772. No. 124. <i>Feki Mustahi.</i>                  | 217808. No. 160. <i>Merese.</i>                      |
| 217773. No. 125. <i>Debekri.</i>                       | 217809. No. 161. <i>Babudu.</i>                      |
| 217774. No. 126. <i>Ankolib Khafif.</i>                | 217810. No. 162. <i>Umm el Teiman.</i>               |
| 217775. No. 127. <i>Atual Tual.</i>                    | 217811. No. 163. <i>Safra Kohia.</i>                 |
| 217776. No. 128. <i>Bein.</i>                          | 217812. No. 164. <i>Dura el Saki.</i>                |
| 217777. No. 129. <i>Culum Looman.</i>                  | 217813. No. 165. <i>Mareig.</i>                      |
| 217778. No. 130. <i>Magbago Mengirma.</i>              | 217814. No. 166. <i>El Safra.</i>                    |
| 217779. No. 131. <i>Fallama.</i>                       | 217815. No. 167. <i>Wad Fahl.</i>                    |
| 217780. No. 132. <i>Query 8.</i>                       | 217816. No. 168. <i>Aklamoi Red.</i>                 |
| 217781. No. 133. <i>War Yabis.</i>                     | 217817. No. 169. <i>Nyan Bau.</i>                    |
| 217782. No. 134. <i>Reri Light Brown.</i>              | 217818. No. 170. <i>Belek.</i>                       |
| 217783. No. 135. <i>Wad Um Benein.</i>                 | 217819. No. 171. <i>Lodoka.</i>                      |
| 217784. No. 136. <i>Korjaj.</i>                        | 217820. No. 172. <i>Morijang.</i>                    |
|  | 217821. No. 173. <i>Makoi.</i>                       |
|  | 217822. No. 174. <i>Rubai.</i>                       |

## 217649 to 217893—Continued

217823. No. 175. <i>Magbago</i> ( <i>Magbago Fejuler</i> ).	217858. No. 210. <i>Lwel Fadiann</i>
217824. No. 176. <i>Abongboa</i> .	217859. No. 211. <i>Query 3</i> .
217825. No. 177. <i>La ghab el</i> <i>Homar</i> .	217860. No. 212. <i>Mulkidi</i> .
217826. No. 178. <i>Gonib</i> .	217861. No. 213. <i>Barali</i> .
217827. No. 179. <i>Abu Sanya</i> ( <i>Sanwa</i> ).	217862. No. 214. <i>Kulmetn</i> .
217828. No. 180. <i>Hemaisi</i> .	217863. No. 215. <i>Raba</i> .
217829. No. 181. <i>Mughash White</i> .	217864. No. 216. <i>Goya 3</i> .
217830. No. 182. <i>Nyan Dok Dura</i> .	217865. No. 217. <i>Adigo</i> .
217831. No. 183. <i>Shalshali White</i> .	217866. No. 218. <i>Nytwal</i> .
217832. No. 184. <i>Mangbgagu</i> .	217867. No. 219. <i>Manalek</i> .
217833. No. 185. <i>Abu Digais</i> .	217868. No. 220. <i>Debuer</i> .
217834. No. 186. <i>Malwal Red</i> .	217869. No. 221. <i>Waramara</i> .
217835. No. 187. <i>Marial White</i> .	217870. No. 222. <i>Achar</i> .
217836. No. 188. <i>Wad Fur</i> .	217871. No. 223. <i>Merissa Kuku</i> .
217837. No. 189. <i>Lwalli White</i> .	217872. No. 224. <i>Atong Tong</i> .
217838. No. 190. <i>Fayoumi</i> .	217873. No. 225. <i>Agono Kaidin</i> .
217839. No. 191. <i>Kurgi</i> .	217874. No. 226. <i>Rapbel</i> .
217840. No. 192. <i>Aklamoi White</i> .	217875. No. 227. <i>Ajih</i> .
217841. No. 193. <i>Shendi</i> ( <i>Feterita</i> ).	217876. No. 228. <i>Manawan</i> .
217842. No. 194. <i>Abdel Magid</i> ( <i>Feterita</i> ).	217877. No. 229. <i>Malwal Adair</i> <i>Jok</i> .
217843. No. 195. <i>Malwal Aweil</i> .	217878. No. 230. <i>Nyithin</i> ( <i>Nythin</i> ).
217844. No. 196. <i>Feseikh</i> .	217879. No. 231. <i>Thok Grey</i> .
217845. No. 197. <i>Ayol</i> .	217880. No. 232. <i>Athilayer</i> .
217846. No. 198. <i>Matindi Grey</i> .	217881. No. 233. <i>Malwal</i> .
217847. No. 199. <i>Ngau Kili</i> .	217882. No. 234. <i>Mberika</i> .
217848. No. 200. <i>Kamuria</i> .	217883. No. 235. <i>Dangu Red</i> .
217849. No. 201. <i>Awanlek</i> .	217884. No. 236. <i>Moru</i> .
217850. No. 202. <i>Adar Hirsute</i> .	217885. No. 237. <i>Merepe-h</i> .
217851. No. 203. <i>Query 6</i> .	217886. No. 238. <i>Thok Brown</i> .
217852. No. 204. <i>Nieng Akuan</i> .	217887. No. 239. <i>Alathgau</i> .
217853. No. 205. <i>Bari</i> .	217888. No. 240. <i>Keth</i> .
217854. No. 206. <i>Jokwaye Brown</i> .	217889. No. 241. <i>Culum Sagaan</i> .
217855. No. 207. <i>Agira</i> .	217890. No. 242. <i>Abu Direana</i> ( <i>Feterita</i> ).
217856. No. 208. <i>Adar Abu Shar</i> .	217891. No. 243. <i>Gesheish</i> ( <i>Feterita</i> ).
217857. No. 209. <i>Yom</i> .	217892. No. 244. <i>Lnugbash</i> .
	217893. No. 245. <i>Dundnawi</i> .



**217894 to 217899. SORGHUM VULGARE Pers. Poaceae.**

From Indonesia. Seeds presented by H. V. Geib, American Embassy, Djakarta. Received May 18, 1954.

217894. No. 26.

217897. No. 305.

217895. No. 147. Antjerpadi.

217898. No. 311.

217896. No. 244.

217899. No. 327. Medan.

**217900. PINUS THUNBERGII Parl. Pinaceae. Japanese black pine.**

From Japan. Plant presented by an unknown donor. Received May 19, 1954.

**217901. AGROPYRON ELONGATUM (Host) Beauv. Poaceae.**

**Tall wheatgrass.**

From Canada. Seeds presented by the Dominion Forage Crops Laboratory, Saskatoon. Received May 19, 1954.

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**217902. CARICA CANDAMARCENSIS Hook. f. Caricaceae.**

From Peru. Seeds presented by the Estación Experimental Agrícola, La Molina, Lima. Received May 19, 1954.

**217903. EUPHORBIA sp. Euphorbiaceae.**

From Afghanistan. Seeds collected by H. S. Gentry, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 20, 1954.

No. 12814. Twenty-five miles northeast of Keshim, Badakhshar Province. Oct. 16, 1953. Bushy perennial.

**217904 to 217914.**

From India. Seeds presented by the Forest Botanist, Forest Research Institute, Dehra Dun, U.P. Received May 20, 1954.

217904. ALYSICARPUS VAGINALIS (L.) DC. Fabaceae.

Alyceclover.

217905. ARISTIDA CYANANTHA Steud. Poaceae.

217906. CHRYSOPOGON MONTANUS Trin. Poaceae.

217907. CROTALARIA LEIOLOBA Bartling. Fabaceae.

217908. CROTALARIA SPECTABILIS Roth.

217909. DESMODIUM GANGETICUM (L.) DC. Fabaceae.

217910. DESMODIUM HETEROCARPUM (L.) DC.

217911. ECHINOCHLOA CRUSGALLI var. FRUMENTACEA (Roxb.) W.F. Wight. Poaceae.

217912. INDIGOFERA ENDECAPHYLLA Jacq. Fabaceae.

217913. INDIGOFERA PULCHELLA Roxb.

217914. INDIGOFERA TRITA L.

**217915 to 217917.**

From Canada. Plants presented by the Dominion Experimental Station, Morden, Manitoba. Received May 21, 1954.

217915. MALUS BACCATA var. MANDSHURICA (Maxim.) C. Schneid. Rosaceae.

217916. PRINSEPIA SINENSIS Oliver. Rosaceae.

217917. SHEPHERDIA ARGENTEA (Pursh) Nutt. Elaeagnaceae.



**217918 to 217922.**

From Pakistan. Bulbs collected by H. S. Gentry and E. E. Smith, Agricultural Explorers, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 24, 1954.

**217918.** *IXIOLIRION* sp. Amaryllidaceae.

No. 14092. Parichinar, Kurrinam Valley, N. W. F. Province. Apr. 22, 1954. Altitude 5,800 feet. Ten to 15 inches tall, with bright-purple flowers.

**217919.** *TULIPA* sp. Liliaceae. **Tulip.**

No. 14075. Four miles southwest of Hungu, Northwest Frontier Province. Apr. 21, 1954.

**217920.** *TULIPA* sp.

No. 14091. Parichinar, Kurram Valley, Northwest Frontier Province. Apr. 22, 1954.

**217921.** *TULIPA* sp.

No. 14202. Kanjoo, Saidu, Swat. Apr. 30, 1954. Altitude 3,000 feet.

**217922.** (Undetermined.) Liliaceae.

No. 14203. Kanjoo, Saidu, Swat. Apr. 30, 1953.

**217923 to 217925.** *CYAMOPSIS TETRAGONOLOBA* (L.) Taub. **Guar.**  
Fabaceae.

From India. Seeds presented by the Division of Botany, Indian Agricultural Research Institute, New Delhi, India. Received May 24, 1954.

**217923.** E.C. 248A.

**217924.** I.C. 32.

**217925.** I.C. 43.

**217926 and 217927.** *CERATONIA SILIQUA* L. Fabaceae. **Carob.**

From Italy. Budsticks presented by the Stazione Sperimentale Di Agrumicoltura E. Frutticoltura, Acireale, Sicily. Received May 25, 1954.

**217926.** *Saccarata*.

**217927.** *Tantillo*. Hermaphrodite.

**217928.** *PHYLLOSTACHYS NIGRA* var. *KENONIS* f. *BORYANA* (Mitf.) Makino. Poaceae. **Bamboo.**

From California. Roots presented by Dr. R. J. Seibert, Los Angeles County Arboretum, Arcadia, Calif. Numbered May 25, 1954. Probably originally introduced from China by a missionary family into Altadena, Calif.

Culms unusually striking because of large mahogany blotches on internodes. Roots planted at the U. S. Plant Introduction Garden, Savannah, Ga.

**217929 to 217972.**

From Pakistan. Seeds collected by H. S. Gentry and E. E. Smith, Agricultural Explorers, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 25, 1954.

**217929 and 217930.** *HIBISCUS ESCULENTUS* L. Malvaceae. **Okra.**

**217929.** No. 13988. Market, Rawalpindi. Local variety. Light irrigation recommended. Apr. 10, 1954.

**217930.** No. 14117. Market, Bannu. Apr. 23, 1954. Local variety.

**217931.** *BRASSICA CAMPESTRIS* var. *SARSON* Prain. Brassicaceae. **Sarson.**

No. 13964. Market, Rawalpindi. Apr. 10, 1954. Seeds grown for oil.

## 217929 to 217972—Continued

- 217932 and 217833. *BRASSICA NAPUS* L. Rape.  
 217932. No. 14116. Market, Bannu. Apr. 23, 1954. Local variety.  
 217933. No. 14119. Market, Bannu. Apr. 23, 1954. Grown locally for oil.
217934. *BRASSICA OLERACEA* var. *BOTRYTIS* L. Cauliflower.  
 No. 13962. *Puhl Gobi* No. 1. Market, Rawalpindi. Apr. 10, 1954.
217935. *BRASSICA OLERACEA* var. *GONGYLODES* L. Kohlrabi.  
 No. 13986. *Gan Gobi*. Market, Rawalpindi. Apr. 10, 1954.
217936. *BRASSICA* sp.  
 No. 14187. Twenty miles northeast of Saidu, Swat. Apr. 29, 1954. Altitude 3,000 feet. Short annual herb 16–24 inches tall. Cultivated for oil in seeds.
- 217937 to 217939. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. Watermelon.  
 217937. No. 13959. Market, Rawalpindi. Apr. 10, 1954.  
 217938. No. 13973. *Tinda*. Market, Rawalpindi. Apr. 10, 1954. Small round variety used as a table vegetable in curry.  
 217939. No. 14126. Market, Bannu. Apr. 23, 1954.
217940. *CITRUS AURANTIFOLIA* (Christm.) Swingle. Rutaceae. Lime.  
 No. 14225. Market, Peshawar. May 1, 1954.
217941. *CITRUS AURANTIUM* L. Seville orange.  
 No. 13989. Market, Rawalpindi. Apr. 10, 1954. Fruits small with withered-like crinkley skin.
- 217942 to 217945. *CUCUMIS MELO* L. Cucurbitaceae. Muskmelon.  
 217942. No. 13974. *Tarbuza*. Market, Rawalpindi. Apr. 10, 1954. Fruit round, yellow, with green stripes.  
 217943. No. 13975. *Suda*. Market, Rawalpindi. Apr. 10, 1954. Fruit large, oblong; weight 8–12 pounds.  
 217944. No. 14114. Market, Bannu. Apr. 23, 1954.  
 217945. No. 14200. Market, Mingora, Swat. Apr. 30, 1954.
217946. *CUCUMIS SATIVUS* L. Cucumber.  
 No. 13976. *Kirah*. Market, Rawalpindi. Apr. 10, 1954. Grown locally.
217947. *CUCURBITA MOSCHATA* Duchesne. Cucurbitaceae. Cushaw.  
 No. 13972. Market, Rawalpindi. Apr. 10, 1954. Fruit small, yellow.
217948. *HORDEUM* sp. Poaceae. Barley.  
 No. 14088. Market, Parichinar. Apr. 22, 1954.
217949. *LENS CULINARIS* Medic. Fabaceae. Lentil.  
 No. 14156. Market, Dera Ismail Khan. Apr. 24, 1954.
217950. *LINUM USITATISSIMUM* L. Linaceae. Flax.  
 No. 14083. Market, Parichinar, Karrum Valley. Apr. 22, 1954.
217951. *PENNISETUM CILIARE* (L.) Link. Poaceae.  
 No. 13995. Topi Park, Rawalpindi, Punjab. Apr. 12, 1954. Altitude 1,700 feet. Regarded locally as good cattle forage.
217952. *PENNISETUM SPICATUM* (L.) Willd. Pearl millet.  
 No. 14037. *Bajrha*. Market, Peshawar. Apr. 18, 1954.

## 217929 to 217972—Continued

- 217953 to 217957. *PHASEOLUS AUREUS* Roxb. Fabaceae. **Mung bean.**  
 217953. No. 13952. Market, Rawalpindi. Apr. 10, 1954. Small greenish bean.  
 217954. No. 14147. Market, Peshawar. Apr. 18, 1954.  
 217955. No. 14146. Mash. Market, Dera Ismail Khan. Apr. 24, 1954.  
 217956. No. 14158. Market, Dera Ismail Khan. Apr. 24, 1954.  
 217957. No. 14196. Market, Mingora, Swat. April 1954.
217958. *PHASEOLUS MUNGO* L. **Urd.**  
 No. 13916. *Mash No. 48.* Punjab Agriculture College and Research Institute, Lyallpur, Punjab. Apr. 3, 1954. Improved local variety.
217959. *PHASEOLUS VULGARIS* L. **Common bean.**  
 No. 14071. Market, Hungu. Apr. 21, 1954.
- 217960 and 217961. *RAPHANUS SATIVUS* L. Brassicaceae. **Radish.**  
 217960. No. 13980. Market, Rawalpindi. Apr. 10, 1954. Local variety.  
 217961. No. 14108. Market, Bannu. Apr. 23, 1954.
217962. *SOLANUM MELONGENA* L. Solanaceae. **Eggplant.**  
 No. 13985. *Banjai Bemba.* Market, Rawalpindi. Apr. 10, 1954. Variety with long, slender fruits.
217963. *SORGHUM* sp. Poaceae.  
 No. 14007. Near Murree in mountains, Punjab, Apr. 13, 1954. Altitude 6,000 feet.
217964. *BETA VULGARIS* L. Chenopodiaceae. **Beet.**  
 No. 13981. *Ralek.* Market, Rawalpindi. Apr. 10, 1954.
- 217965 and 217966. *TRITICUM AESTIVUM* L. Poaceae. **Common wheat.**  
 217965. No. 13924. *C228.* Punjab Agricultural College and Research Institute, Lyallpur, Punjab. Apr. 3, 1954. Locally improved and winter wheat.  
 217966. No. 14190. Karora, Swat. Apr. 29, 1954. Altitude 2,700 feet. A grayish, blue-green beardless winter wheat cultivated on terraces in deep canyon.
217967. *TULIPA* sp. Liliaceae. **Tulip.**  
 No. 14202. Kanjoo, Saidu, Swat.
217968. *TULIPA* sp.  
 No. 14212. Near Barikot, Swat. May 1, 1954. Spontaneous in rocky soil.
217969. *VICIA NARBONENSIS* L. Fabaceae. **Common vetch.**  
 No. 14181. Fifteen miles northeast of Saidu, Swat. Apr. 29, 1954. Altitude 3,000 feet. Annual.
217970. *VIGNA CYLINDRICA* (L.) Skeels. Fabaceae. **Catjang.**  
 No. 14155. Market, Dera Ismail Khan. Apr. 24, 1954. Table bean. Tan-seeded variety.
217971. (Undetermined.)  
 No. 14203. Kanjoo, Saidu, Swat.
217972. (Undetermined.)  
 No. 14213. Near Barikot, Swat. May 1, 1954.



**217973. BOTHRIOCHLOA PERTUSA (L.) A. Camus. Poaceae.**

From Cuba. Seeds collected by N. R. Dias, King Ranch, Kingsville, Tex.  
Received May 25, 1954.

From near Manati.

**217974. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.**

From the Dominican Republic. Seeds presented by Dr. W. F. Bradley, Institute of Inter-American Affairs, Ciudad Trujillo. Received May 25, 1954.

*Santo Domingo.*

**217975 and 217976. AVENA SATIVA L. Poaceae. Oats.**

From Wales. Seeds presented by the Welsh Plant Breeding Station, Plas Gogerddan, near Aberystwyth. Received May 25, 1954.

217975. *S147.*

217976. *S172.*

**217977 to 217983.**

From Egypt. Plants presented by Kenneth Pearse, United States Operations Mission to Egypt, Cairo. Received May 26, 1954.

217977. *SANSEVIERIA GRANDIS* Hook. f. Liliaceae.

217978. *SANSEVIERIA METALLICA* Ger. & Labr.

217979. *SANSEVIERIA* sp.

*Tackh et Drar.* Received as *Sansevieria schweinfurthii*, an apparently unpublished name.

217980. *SANSEVIERIA TRIFASCIATA* Prain.

217981. *SANSAVIERIA TRIFASCIATA* var. *LAURENTII* (De Wildem.) N.E. Br.

217982. *SANSEVIERIA* sp.

Abbasia Barracks. Lot. 1.

217983. *SANSEVIERIA* sp.

Abbasia Barracks. Lot. 2.

**217984. SOLANUM. Solanaceae.**

From Germany. Tubers presented by Dr. E. Koehler, Braunschweig. Received May 26, 1954.

*S. demissum* × *tuberosum*. A6.

**217985 to 217989. GOSSYPIUM. Malvaceae. Cotton.**

From India. Seeds presented by Ram Mohan Arora. Received May 28, 1954.

217985. *Deshi.*

217988. *35/1 Kapan.*

217986. *Deshi Kapan.*

217989. *216F.*

217987. *35/1.*

**217990. TEPHROSIA VOGELII Hook. f. Fabaceae.**

From Nigeria. Seeds presented by the Department of Agriculture, Moor Plantation, Ibadan. Received May 28, 1954.

Grows throughout Bamenda Province from 1,200–7,000 feet altitude, average annual rainfall 92 inches, with dry season from November to February.

**217991. CAMELLIA SINENSIS (L.) Kuntze. Theaceae. Tea.**

From Japan. Seeds collected by K. Matsuoka, Skikoku Agricultural Experiment Station, Zentsuji, Kagawa. Received May 28, 1954.

*Yasei-chia.* From Kochi Prefecture.



**217992 to 218004. LESPEDEZA spp. Fabaceae.**

From Japan. Seeds presented by the Ministry of Agriculture and Forestry, Shikoku Agricultural Experiment Station, Zentsuji, Kagawa. Received June 1, 1954.

217992. *LESPEDEZA BICOLOR* Turcz.

From Yamanashi Prefecture.

217993. *LESPEDEZA BICOLOR* var. *JAPONICA* Nakai.

From Okayama Prefecture.

217994 to 217999. *LESPEDEZA CUNEATA* (Dum.-Cours.) G. Don.

217994. From Chiba Prefecture.

217995. From Fukuschima Prefecture.

217996. From Kagawa Prefecture.

217997. From Okayama Prefecture.

217998. From Tochigi Prefecture.

217999. From Yamanashi Prefecture.

218000. *LESPEDEZA CYRTOBOTRYA* Miquel.

From Kagawa Prefecture.

218001. *LESPEDEZA PILOSA* (Thunb.) Sieb.

From Kagawa Prefecture.

218002 and 218003. *LESPEDEZA STRIATA* (Thunb.) Hook. & Arn.

Common lespedeza.

218002. From Fukushima Prefecture.

218003. From Kagawa Prefecture.

218004. *LESPEDEZA VIRGATA* (Thunb.) DC.

From Kagawa Prefecture.

**218005. ZEA MAYS L. Poaceae.**

**Corn.**

From Iowa. Seeds planted at the Regional Plant Introduction Station, Ames. Numbered June 1, 1954.

*Clarage.* From R. J. Friant, Extension Agronomist, Morgantown, W. Va.

**218006. CYNODON DACTYLON (L.) Pers. Poaceae.**

**Bermuda grass.**

From Iran. Plugs presented by the American Embassy, Tehran. Received June 1, 1954.

Fine-leaved type.

**218007 to 218019. CITRUS spp. Rutaceae.**

From Sicily. Budsticks presented by Dr. Francesco Russo, Acireale. Received June 2, 1954.

218007 to 218009. *CITRUS LIMON* (L.) Burm. f.

**Lemon.**

218007. *Cocezzaro.*

218008. *Lo Porto.*

218009. *Lunario.*

218010 and 218011. *CITRUS RETICULATA* Blanco.

**Mandarin orange.**

218010. *Avana.*

218011. *Clementine.*

## 218007 to 218019—Continued

218012 to 218019. CITRUS SINENSIS (L.) Osbeck. Orange.

218012. *Belladona*. 218016. *Sanguinello Moscato*.218013. *Biondo Comune*. 218017. *Tarocco*.218014. *Moro*. 218018. *Tarocco a Grappoli*.218015. *Ovale*. 218019. *Vaccoro*.

218020. CITRUS AURANTIFOLIA (Christm.) Swingle. Rutaceae. Lime.

From India. Cuttings collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Mar. 9, 1954. Numbered June 2, 1954.

No. 13625. Horticultural Research Station, Saharanpar, United Provinces, Feb. 15, 1954. *Keem*. Fruit large, rough-skinned.

218021. LINUM USITATISSIMUM L. Linaceae. Flax.

From India. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 3, 1954.

No. 13884. Pusa Institute, New Delhi. March 1954. Rust-resistant variety developed by the Indian Agricultural Research Institute.

218022. CYAMOPSIS TETRAGONOLOBA (L.) Taub. Fabaceae. Guar.

From India. Seeds presented by Dorothy Harper, Bombay. Received June 3, 1954.

218023. GLYCINE MAX (L.) Merrill. Fabaceae. Soybean.

From Illinois. Seeds presented by the A. E. Staley Manufacturing Company, Decatur. Received June 3, 1954.

Originally from Buenos Aires, Argentina.

218024. RAUVOLFIA SERPENTINA Benth. Apocynaceae.

From India. Seeds collected by Dr. S. Rajagopalan, Madras, Madras. Received June 3, 1954.

Collected at "Jaya," in December 1953.

218025 to 218034. PYRUS COMMUNIS L. Malaceae. Pear.

From South Australia. Scions presented by the Department of Agriculture, Adelaide. Received June 4, 1954.

218025. *Buerre Benoit*. 218030. *Doyenne Boisselot*.218026. *Buerre Chatenay*. 218031. *Fondante de Noel*.218027. *Buerre Mortillet*. 218032. *Fondante de Thirroit*.218028. *Calebasse Oberdieck*. 218033. *Gratioli of Jersey*.218029. *Congress Pomologique*. 218034. *Helene Gregoire*.

218035 and 218036. CUCUMIS spp. Cucurbitaceae.

From Iran. Seeds collected by Ross Silkett, Agricultural Conservation Program Service, United States Department of Agriculture, Washington, D.C. Received June 4, 1954.

From Mahabad Village, Province of Azerbaijan, near Tabriz.

218035. CUCUMIS MELO L. Muskmelon.

218036. CUCUMIS SATIVUS L. Cucumber.

**218037 to 218044. ZEA MAYS L. Poaceae. Corn.**

From the Netherlands. Seeds presented by the Instituut voor Veredeling van Landbouwgewassen, Wageningen. Received June 4, 1954.

218037. *AZC 2*. An early Mediterranean flint variety. Ears conical, cob very heavy.

218038. *ELG 3*. Selection from *Elgereta*.

218039. *Kuma*. Open-pollinated 8-row flint variety.

218040. *LIS 1*. Selection from open-pollinated *Lisargarater*.

218041. *LIS 2*. Selection from open-pollinated *Lisargarater*.

218042. *V.G.C.B.* Open-pollinated 8-row flint variety.

218043. *A*.

218044. *B*.

**218045 to 218047.**

From Germany. Seeds presented by Dr. E. Koehler, Braunschweig. Received June 4, 1954.

218045. *DATURA STRAMONIUM L.* Solanaceae.

218046. *NICOTIANA TABACUM L.* Solanaceae. Common tobacco.  
*Jamson.*

218047. *SOLANUM DEMISSUM Lindl.* Solanaceae.

**218048. HIBISCUS SABDARIFFA L. Malvaceae. Roselle.**

From Iran. Seeds presented by the Department of Agriculture, Resht. Received June 7, 1954.

**218049 to 218057.**

From Australia. Seeds presented by Dr. William Hartley, Division of Plant Industry, Canberra. Received June 7, 1954.

Collected by S. G. Gray, Lawes, Queensland.

218049. *BOTHRIOCHLOA DECIPIENS* (Hack.) C. E. Hubb. Poaceae.

218050. *BOTHRIOCHLOA INTERMEDIA* (R. Br.) A. Camus.

218051. *CAPILLIPEDIUM PARVIFLORUM* (R. Br.) Stapf. Poaceae.

218052. *CYMBOPOGON REFRACTUS* (R. Br.) A. Camus. Poaceae.

218053. *ANDROPOGON SERICEUS* R. Br. Poaceae.

218054. *ANDROPOGON* sp.

218055. *HETEROPOGON CONTORTUS* (L.) Beauv. Poaceae.

218056. *IMPERATA CYLINDRICA* (L.) Beauv. Poaceae.

218057. *THEMEDA AUSTRALIS* (R. Br.) Stapf. Poaceae.

**218058 to 218124.**

From Pakistan. Seeds collected by H. S. Gentry and E. E. Smith, Agricultural Explorers, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 7, 1954.

218058 and 218059. *ALLIUM CEPA L.* Liliaceae. Onion.

218058. No. 13914. Punjab Agricultural College and Research Institute, Lyallpur, Punjab. Apr. 3, 1954.

218059. No. 14107. Market, Bannu, Apr. 23, 1954.

218060. *BOTHRIOCHLOA PERTUSA* (L.) A. Camus. Poaceae.

No. 14055. Agricultural Research Station, Peshawar. August 1953.



## 218058 to 218124—Continued

218061. *ANDROPOGON ANNULATUS* Forsk. Poaceae.

No. 14165. Forty-seven miles south of Bannu on road to Tank. Apr. 25, 1954.

218062. *AVENA SATIVA* L. Poaceae.

Oats.

No. 14033. Rah, 25 miles northwest of Rawalpindi, Punjab. Apr. 25, 1954.

218063. *BETA VULGARIS* L. Chenopodiaceae.

Beet.

No. 13905. *Palak*. Punjab Agricultural College and Research Institute, Lyallpur, Punjab. Apr. 3, 1954.

218064. *BRASSICA RAPA* L. Brassicaceae.

Turnip.

No. 13983. *Shalgum Pila*. Market, Rawalpindi. Apr. 10, 1954.

218065. *BRASSICA* sp.

No. 13963. *Ohi*. Market, Rawalpindi. Apr. 10, 1954. Winter annual cultivated for oilseed.

218066. *CAJANUS CAJAN* (L.) Druce. Fabaceae.

Pigeonpea.

No. 14122. Market, Bannu. Apr. 23, 1954.

218067 and 218068. *CICER ARIETINUM* L. Fabaceae.

Chickpea.

218067. No. 14042. *Chenn*. Market, Peshawar. Apr. 18, 1954. Large, smooth, whitish variety.

218068. No. 14149. Market, D. I. Khan. Apr. 24, 1954. Local black variety.

218069. *COLCHICUM LUTEUM* Baker. Liliaceae.

No. 14032. Abbottabad, Apr. 15, 1954. Altitude 4,500 feet. Loamy soil.

218070. *CUCUMIS MELO* var. *FLEXUOSUS* Naud. Cucurbitaceae.

No. 13977. Market, Rawalpindi. Apr. 10, 1954. Long and slender.

218071. *CUCUMIS MELO* L.

Muskmelon.

No. 14199. Market, Mingora, Swat. Apr. 30, 1954.

218072. *CUCURBITA PEPO* L. Cucurbitaceae.

Pumpkin.

No. 13971. *Alva Kadu*. Market, Rawalpindi. Apr. 10, 1954. Large red pumpkin.

218073. *CUMINUM CYMINUM* L. Apiaceae.

Cumin.

No. 14085. Market, Parichinar, Kurram Valley. Apr. 22, 1954.

218074. *CYMBOPOGON MARTINII* (Roxb.) W. Wats. Poaceae.

No. 14095. Ten miles southwest of Kohat. Apr. 22, 1954. Perennial on rocky slope; browsed by cattle.

218075. *DESMOSTACHYA BIPINNATA* (L.) Stapf. Poaceae.

No. 14162. Experimental Farm, Department of Agriculture, Dera Ismail Khan. Apr. 24, 1954. Harsh-leaved perennial; young leaves eaten by cattle.

218076. *DAUCUS CAROTA* L. Apiaceae.

Carrot.

No. 13982. *Garga serk*. Market, Rawalpindi. Apr. 10, 1954. Red carrot reported to be very tender.

218077. *ERIOBOTRYA JAPONICA* (Thunb.) Lindl. Malaceae.

Loquat.

No. 14017. *Loquat*. Ten miles east of Rawalpindi, Punjab. Apr. 3, 1954. Fruit 1¼–1¾ inches long, yellow, with good flavor.



## 218058 to 218124—Continued

218078. *HORDEUM* sp. Poaceae. **Barley.**

No. 14223. Junction of Swat and Dir Roads, near Thana. May 1, 1954. Altitude 2,300 feet. Small wild barley growing along roadside.

218079. *LACTUCA* sp. Cichoriaceae.

No. 14081. Four miles northwest of Thal. Apr. 22, 1954. Altitude 3,000 feet.

218080. *LASIURUS HIRSUTUS* Boiss. Poaceae.

No. 14137. Pezu Hills north of Dera Ismail Khan. Apr. 23, 1954.

218081 and 218082. *LATHYRUS SATIVUS* L. Fabaceae. **Bittervetch.**

218081. No. 14048. Near Peshawar. May 19, 1954. Annual

218082. No. 14231. Shekhupura, Punjab. April 1954.

218083. *LEPIDIUM SATIVUM* L. Brassicaceae. **Garden cress.**

No. 14112. Market, Bannu, Apr. 23, 1954. Grown locally as concentrated cattle feed.

218084. *LOLIUM TEMULENTUM* L. Poaceae. **Darnel.**

No. 14026. Rah, 25 miles northwest of Rawalpindi, Punjab. Apr. 15, 1954.

218085. *LOLIUM TEMULENTUM* L.

No. 14049. Near Peshawar. Apr. 19, 1954. Annual grass in wheat field.

218086. *LUFFA ACUTANGULA* (L.) Rosb. Cucurbitaceae.

**Singkwa towelgourd.**

No. 13966. *Toreij, Tori*. Market, Rawalpindi. Apr. 10, 1954. Green fruits eaten as a cooked vegetable.

218087. *MALVA* sp. Malvaceae.

No. 14207. Buhrain, Swat. Apr. 30, 1954. Altitude 4,500 feet. Leaves used as a cooked green when the plants are about 3 inches high.

218088. *MEDICAGO LUPULINA* L. Fabaceae.

No. 14050. Near Peshawar. Apr. 19, 1954. Weak-stemmed annual.

218089. *MELIA AZEDARACH* L. Meliaceae.

No. 14209. West side of Swat river between Saidu and Madyan. Apr. 30, 1954. Common roadside ornamental. Slight lilac odor.

218090. *ONOBRYCHIS* sp. Fabaceae.

No. 14170. Forty-seven miles south of Bannu on road to Tank. Apr. 25, 1954.

218091. *PANICUM ANTIDOTALE* Retz. Poaceae.

No. 14143. Twelve miles west of Dera Ismail Khan. Apr. 24, 1954. Perennial growing on dry sandy silt loam.

218092 to 218094. *PAPAVER SOMNIFERUM* L. Papaveraceae. **Opium poppy.**

218092. No. 14115. Market, Bannu. Apr. 23, 1954. Grown locally for seasoning.

218093. No. 14221. Government Opium Station, Nowsherra. April 1954. Cultivated for opium.

218094. No. 14222. Government Opium Station, Nowsherra. Apr. 1, 1954.

## 218058 to 218124—Continued

- 218095 and 218096. *PENNISETUM CILIARE* (L.) Link. Poaceae.  
 218095. No. 14133. Pezu Hills north of Dera Ismail Khan. Apr. 23, 1954.  
 218096. No. 14217. Near Sargar, Swat. May 1, 1954.
218097. *PENNISETUM ORIENTALE* (L.) Rich.  
 No. 14019. Rah, 25 miles northwest of Rawalpindi, Punjab. Apr. 15, 1954. Altitude 2,000 feet. Limestone slope.
- 218098 to 218100. *PENNISETUM SPICATUM* (L.) Willd. Pearl millet.  
 218098. No. 13953. *Bajra*. Market, Rawalpindi. Apr. 10, 1954. Summer grown, usually without irrigation.  
 218099. No. 14113. Market, Bannu. Apr. 23, 1954. Summer dry-farmed table millet and fodder for cattle.  
 218100. No. 14157. Market, Dera Ismail Khan. Apr. 24, 1954. Millet used for table; stalks for cattle feed.
- 218101 and 218102. *PHASEOLUS ACONITIFOLIUS* Jacq. Fabaceae. Moth bean.  
 218101. No. 14038. *Moht*. Market, Peshawar. Apr. 18, 1954.  
 218102. No. 14153. Market, Dera Ismail Khan, Apr. 24, 1954.
218103. *PHASEOLUS AUREUS* Roxb. Mung bean.  
 No. 14070. Market, Hungu. Apr. 21, 1954.
- 218104 and 218105. *PHASEOLUS MUNGO* L. Urd.  
 218104. No. 13951. *Mash*. Market, Rawalpindi. Apr. 10, 1954.  
 218105. No. 14193. Market, Mingora, Swat. Apr. 30, 1954.
218106. *PHASEOLUS VULGARIS* L. Common bean.  
 No. 14040. *Kurkhe*. Market, Peshawar. Apr. 18, 1954. Reddish kidney bean.
218107. *PLANTAGO LANCEOLATA* L. Plantaginaceae.  
 No. 14031. Abbottabad. Apr. 15, 1954. Altitude 4,500 feet.
218108. *PLANTAGO* sp.  
 No. 14111. Market, Bannu. Apr. 23, 1954. Seed used locally as medicine.
218109. *PLANTAGO* sp.  
 No. 14135. Pezu Hills, north of Dera Ismail Khan. Apr. 23, 1954. Low spring annual.
- 218110 and 218111. *SECALE CEREALE* L. Poaceae. Rye.  
 218110. No. 14191. Karora, Swat. Apr. 29, 1954. Altitude 2,700 feet.  
 218111. No. 14179. Twenty-five miles north of Saidu, Swat. Apr. 28, 1954.
218112. *SORGHUM VULGARE* Pers. Poaceae.  
 No. 14152. Market, Dera Ismail Khan. Apr. 24, 1954. Commonly dry-farmed.
218113. *STIPA* sp. Poaceae.  
 No. 14227. Twelve miles south of Peshawar. April 1954. Annual on valley plain.
218114. *THEMEDA ANATHERA* (Nees) Hook. Poaceae.  
 No. 14006. Near Murree in mountains, Punjab. Apr. 13, 1954. Altitude 6,000 feet. Pine forest area. Perennial grass cut for fodder.

## 218058 to 218124—Continued

218115. *TRIFOLIUM ALEXANDRINUM* L. Fabaceae. Berseem.No. 13961. *Berseem*. Market, Rawalpindi. Apr. 10, 1954.218116. *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae. Fenugreek.No. 13965. *Meti*. Market, Rawalpindi. Apr. 10, 1954.218117. *TRIGONELLA MONANTHA* C. A. Mey.

No. 14076. Four miles southwest of Hungu. Apr. 21, 1954. Diminutive early spring annual.

218118 to 218121. *TRITICUM* spp. Poaceae.218118 to 218120. *TRITICUM AESTIVUM* L. Common wheat.218118. No. 13923. *Wheat C591*. Punjab Agricultural College and Research Institute, Lyallpur, Punjab. Apr. 3, 1954. High-yielding and good quality wheat grown by irrigation on alluvial soils in winter.

218119. No. 14997. Topi Park, Rawalpindi, Punjab. Apr. 12, 1954. Altitude 1,700 feet. Tall, stooling, nearly awnless wheat.

218120. No. 14098. Forty-four miles southeast of Kohat along road to Bannu. Apr. 23, 1954. Dry-farmed winter wheat.

218121. *TRITICUM DURUM* Desf. Durum wheat.

No. 14102. Forty-four miles southwest of Kohat along road to Bannu. Apr. 23, 1954. Sandy soil. Dry-farmed winter wheat with black beard; later ripening than other varieties in same field.

218122 to 218124. *VIGNA SINENSIS* (Torner) Savi. Fabaceae. Cowpea.218122. No. 14044. *Lubia*. Market, Peshawar. Apr. 18, 1954. Small yellowish table bean.218123. No. 14045. *Lubia*. Market, Peshawar. Apr. 18, 1954. Small whitish table bean.

218124. No. 14118. Market, Bannu. Apr. 23, 1954.

218125 to 218128. *VACCINIUM OXYCOCCOS* L. Vacciniaceae.

Cranberry.

From Finland. Plants presented by the Cranberry Experiment Station, Köyliö, through Toivo Rautavaara, Helsinki. Received June 7, 1954.

218125. *Espoo* No. 10.218127. *Kiuruvesi* No. 44.218226. *Kajaani* No. 75.218128. *Köyliö* No. 90.218129. *ZEA MAYS* L. Poaceae.

Corn.

From Iowa. Seeds planted at the Regional Plant Introduction Station, Ames. Numbered June 8, 1954.

Originally an endemic strain collected as germ plasm for plant breeding work from the Agricultural Experiment Station, Morgantown, W. Va. An open-pollinated yellow dent corn, grown in Terra Alta for 25 years or more, that has a shelling percentage of 83–88 percent. Altitude 2, 559 feet.

218130 to 218191. *ZEA MAYS* L. Poaceae.

Corn.

From Missouri. Seeds presented by the Missouri Botanical Gardens, St. Louis. Received June 8, 1954.

Endemic strains collected as germ plasm for plant breeding work. Collected by Hugh C. Cutler, in New Mexico and Arizona, in November 1953.

218130. P1. Santo Domingo Pueblo, N. Mex. Altitude 5,200 feet. White corn.



## 218130 to 218191—Continued

218131. P2. Cochiti Pueblo, N. Mex. Altitude 5,300 feet. White corn.  
218132. P3. Mesita Pueblo, N. Mex. Altitude 5,700 feet. White corn.  
218133. P3C. Mesita Pueblo, N. Mex. Altitude 5,700 feet. White corn.  
218134. P4. Tesuque Pueblo, N. Mex. Altitude 6,800 feet. Sweet corn.  
218135. P5. San Lorenzo Pueblo, N. Mex. Altitude 6,900 feet. White corn.  
218136. P6. Tesuque Pueblo, N. Mex. Altitude 6,800 feet. Yellow corn.  
218137. P7. Tesuque Pueblo, N. Mex. Altitude 6,800 feet. White corn.  
218138. P8. Isleta Pueblo, N. Mex. Altitude 4,950 feet. White corn.  
218139. P9. Zia Pueblo, N. Mex. Altitude 6,000 feet. White corn.  
218140. P10. Acoma Pueblo, N. Mex. Altitude 6,800 feet. Pop corn.  
218141. P11. Acoma Pueblo, N. Mex. Altitude 6,000 feet. Yellow corn.  
218142. P12. San Lorenzo Pueblo, N. Mex. Altitude 7,000 feet. Yellow flint corn.  
218143. P13. Santo Domingo Pueblo, N. Mex. Altitude 5,200 feet. Blue corn.  
218144. P14. Isleta Pueblo, N. Mex. Altitude 4,950 feet. Rust-colored dent corn.  
218145. P15. Siles, N. Mex. Altitude 5,200 feet. Blue corn.  
218146. P16. Mesita Pueblo, N. Mex. Altitude 5,700 feet. Blue corn.  
218147. P17. Mesita Pueblo, N. Mex. Altitude 5,700 feet. Rust-colored dent corn.  
218148. P18. Isleta Pueblo, N. Mex. Altitude 4,950 feet. Blue corn.  
218149. P19. Taos Pueblo, N. Mex. Altitude 7,000 feet. Yellow flint corn.  
218150. P21. Cochiti Pueblo, N. Mex. Altitude 5,300 feet. Variegated red corn.  
218151. P22. Cochiti Pueblo, N. Mex. Altitude 5,300 feet. Cherry-colored corn.  
218152. P23. Taos Pueblo, N. Mex. Altitude 7,000 feet. Yellow flint corn.  
218153. P24. San Felipe Pueblo, N. Mex. Altitude 5,200 feet. Cherry and blue corn.  
218154. P25. San Felipe Pueblo, N. Mex. Altitude 5,200 feet. Yellow dent corn.  
218155. P26. Santo Domingo Pueblo, N. Mex. Altitude 5,200 feet. Mixture of yellow dents.  
218156. P27. Santo Domingo, N. Mex. Altitude 5,200 feet. Blue corn.  
218157. P28. Santa Clara Pueblo, N. Mex. Altitude 5,200 feet. Blue corn.  
218158. P29. Zia Pueblo, N. Mex. Altitude 6,000 feet. Extremely long blue and mixed ears.  
218159. P30. Zia Pueblo, N. Mex. Altitude 6,000 feet. Red cherry corn.  
218160 to 212166. Navajo Indian Reservation, near Shonto Trading Post, Ariz. Altitude 5,300 feet.  
218160. P31. Yellow corn.  
218161. P32. Small ears of yellow corn.  
218162. P33. Mixed colors.  
218163. P34. White corn.



**218130 to 218191—Continued****218160 to 212166—Continued**

218164. P35. Blue corn.  
 218165. P36. Cherry-colored corn.  
 218166. P37. Pink and calico corn.  
 218167. P38. Acoma Pueblo, N. Mex. Altitude 6,000 feet. Rust-colored dent corn.  
 218168. P39. Acoma Pueblo, N. Mex. Altitude 6,000 feet. Cherry-pink corn.  
 218169. P40. Laguna Pueblo, N. Mex. Altitude 5,800 feet. Mixed white, yellow, and blue corn.  
 218170. P41. Laguna Pueblo, N. Mex. Altitude 5,800 feet. Mixed corn, mainly blue.  
 218171. P42. Jemez Pueblo, N. Mex. Altitude 6,800 feet. Rust-colored dent corn.  
 218172. P43. Jemez Pueblo, N. Mex. Altitude 6,000 feet. Rust-colored yellow dent corn.  
 218173. P44. Jemez Pueblo, N. Mex. Altitude 6,000 feet. Mixed white, pink, and blue corn.  
 218174 to 218178. Moencopi Pueblo, Ariz. Altitude 4,300 feet.  
     218174. P45. Sweet corn.                      218177. P48. Pink corn.  
     218175. P46. Blue corn.                      218178. P49. Calico corn.  
     218176. P47. White corn.  
 218179 to 218185. Near San Xavier del Bac, Ariz. Altitude 2,300 feet.  
     218179. P50. Cream-colored corn.            218183. P54. White dent corn.  
     218180. P51.                                      218184. P56.  
     218181. P52.                                      218185. P57.  
     218182. P53. White dent corn.  
 218186. P58. Mojave Indian Reservation near Parker, Ariz. Altitude 300 feet.  
 218187. P59. Mojave Indian Reservation, near Parker, Ariz. Altitude 300 feet. Typical cream-white corn.  
 218188. P60. Zia pueblo, N. Mex. Altitude 6,000 feet. Yellow flint corn.  
 218189. P69. Near Sommerton, Ariz. Altitude 100 feet. White dent corn.  
 218190. P70. Near San Xavier del Bac, Papago Reservation, Ariz. Altitude 2,300 feet.  
 218191. P71. Papago Indian Reservation near San Xavier del Bac, Ariz. Altitude 2,300 feet.

**218192. IXIA sp. Iridaceae.**

From Florida. Bulbs presented by William Guild, St. Petersburg. Received June 8, 1954.

**218193 and 218194. ORYZA SATIVA L. Poaceae.****Rice.**

From Japan. Seeds presented by the Ministry of Agriculture and Forestry, Tokyo. Received June 9, 1954.

218193. *Hyuga Nishiki*.  
 218194. *Tsurugiba*.

**218195. ZEA MAYS L. Poaceae. Corn.**

From Iowa. Seeds planted at the Regional Plant Introduction Station, Ames. Numbered June 9, 1954.

Endemic strains collected as germ plasm for plant breeding work.

*Rector; Bloody Butcher*, yellow dent.

From the Agricultural Experiment Station, Morgantown, W. Va. Originally developed by C. R. Rector in Wood Co., W. Va., on a farm once owned by George Washington.

**218196. PERSEA AMERICANA Mill. Lauraceae. Avocado.**

From Israel. Budwood presented by J. Lahav, Ministry of Agriculture, Hakirya, Tel-Aviv. Received June 9, 1954.

*Ettinger*.

**218197. LINUM USITATISSIMUM L. Linaceae. Flax.**

From India. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 9, 1954.

No. 13883. Pusa Institute, New Delhi. March 1954. Rust-resistant variety developed by the Indian Agricultural Research Institute.

**218198. PERSEA AMERICANA Mill. Lauraceae. Avocado.**

From Peru. Seed purchased by A. F. Swanson, Agricultural Advisor, office of Foreign Agricultural Services, United States Department of Agriculture, Washington, D.C.

Market, Piura. Skin dark green with the surface slightly pitted. Flesh firm, yet mellow and pleasant to the taste.

**218199. CUCUMIS SATIVUS L. Cucurbitaceae. Cucumber.**

From Lebanon. Seeds presented by Mr. Joy United States Operations Mission, Beirut. Received June 10, 1954.

*Chebab*.

**218200. CHLORIS MYRIOSTACHYA Hochst. Poaceae.**

From Southern Rhodesia. Seeds presented by L. C. C. Liebenberg, Nunets. Received June 10, 1954.

**218201 to 218206.**

From India. Seeds presented by Dorothy Harper, Lal Bagh Girls School, Lucknow, Uttar Pradesh. Received June 10, 1954.

218201. ANDROPOGON ANNULATUS Forsk. Poaceae.

218202. CHLORIS GAYANA Kunth. Poaceae. Rhodes grass.

218203. PASPALUM DILATATUM Poir. Poaceae. Dallis grass.

218204. PENNISETUM CILIARE (L.) Link. Poaceae.

218205. UROCHLOA MOSAMBICENSIS (Hack.) Dandy. Poaceae.

218206. UROCHLOA sp.

**218207. TRIFOLIUM PRATENSE L. Fabaceae. Red clover**

From France. Seeds presented by the Station for Selection of Important Cultivated Plants, Tourneur Frères, Coulommiers (Seine and Marne). Received June 10, 1954.

*Sepia*.

**218208 to 218213. TEPHROSIA VOGELII Hook. f. Fabaceae.**

From the Belgian Congo. Seeds presented by the Institut National Pour L'Etude Agronomique du Congo Belge, Station Rubona. Received June 11, 1954.

- |                       |                       |
|-----------------------|-----------------------|
| 218208. No. 1. Mauve. | 218211. No. 4. White. |
| 218209. No. 2. White. | 218212. No. 5. Mauve. |
| 218210. No. 3. Mauve. | 218213. No. 6. White. |

**218214. TEPHROSIA VOGELII Hook. f. Fabaceae.**

From the Belgian Congo. Seeds presented by the Institut National Pour L'Etude Agronomique du Congo Belge, Nioka. Received June 14, 1954.

**218215 to 218229. SOLANUM spp. Solanaceae.**

From Germany. Seeds presented by the Max Planck Institut für Zuchtungs-forschung, Voldagsen über Elze, Hanover. Received June 14, 1954.

**218215. SOLANUM BERTHAULTII Hawkes.**

EBS 191.

**218216 and 218217. SOLANUM COLUMBIANUM Dunal.**

218216. EBS 339.

218217. EBS 572.

**218218. SOLANUM FAMATINAE Bitt. & Wittm.**

EBS 510.

**218219. SOLANUM HERRERAE Juz.**

EBS 665.

**218220. SOLANUM MICRODONTUM Bitter.**

EBS 457.

**218221. SOLANUM SANCTAE-ROSAE Hawkes.**

EBS 438.

**218222 to 218226. SOLANUM SIMPLICIFOLIUM Bitter.**

218222. EBS 187b.

218225. EBS 526.

218223. EBS 190.

218226. EBS 626.

218224. EBS 447.

**218227. SOLANUM SOUKUPII Hawkes.**

EBS 369.

**218228. SOLANUM ETUBEROSUM Lindl.**

EBS 388.

**218229. SOLANUM sp.**

Curao.

**218230. FRAGARIA. Rosaceae.**

**Strawberry.**

From Ecuador. Plants presented by Servicio Cooperativo Interamericano de Agricultura, Quito. Received June 14, 1954.

Ambato.

**218231 to 218233. MAGNOLIA. Magnoliaceae.**

From Maryland. Plants growing at the United States Plant Introduction Garden, Glenn Dale. Numbered June 14, 1954.

*Magnolia cordata* × *acuminata*. Hybrids developed by Oliver M. Freeman, at the National Arboretum.

218231. Selection No. 1. Flowers large, yellow; plant about 4 feet high.

218232. Selection No. 2. Flowers large, yellow; plant about 10 feet high.

218233. Selection No. 3. Flowers large, yellow; plant about 14 feet high.

**218234 to 218239.**

From Afghanistan. Seeds collected by Arthur T. Semple, Technical Assistance Mission to Afghanistan, Kabul. Received June 14, 1954.

218234 to 218237. CUCUMIS MELO L. Cucurbitaceae. **Muskmelon.**

From Samongan.

218234. No. 1. Large, sweet, green melon. From Arkani.

218235. No. 2. From Alim.

218236. No. 3. Fruit medium sized, green.

218237. No. 4. Fruit white with rough skin.

218238. ORYZA SATIVA L. Poaceae. **Rice.**

From Doshi.

218239. TRIGONELLA NOEANA Boiss. Fabaceae.

From Andkhuni.

**218240 to 218251.**

From Japan. Seeds presented by A. Moriya, Utsunomiya University, Yokohama. Received June 14, 1954.

218140 to 218244. From Arakawa Village. Nov. 30, 1953.

218240. ARUNDINELLA HIRTA Koidz. Poaceae.

218241. CENCHRUS PURPURASCENS Thunb. Poaceae.

218242. CYMBOPOGON GOERINGII (Steud.) A. Camus. Poaceae.

218243. ECHINOCHLOA CRUSGALLI var. FRUMENTACEA (Roxb.) W. F. Wright. Poaceae.

218244. INDIGOFERA PSEUDOTINCTORIA Mats. Fabaceae.

218245. MICROSTEGIUM sp. Poaceae.

From grounds of Utsunomiya University.

218246. MISCANTHUS SINENSIS Anderss. Poaceae.

From Hakone Pass, South of Mount Fuji. Nov. 9, 1953.

218247. MUHLENBERGIA HUEGELLI Trin. Poaceae.

From Siobara Spa. Oct. 25, 1953.

218248. PHASEOLUS TRILOBATUS (L.) Schreb. Fabaceae.

218249. SORGHUM BICOLOR Moench. Poaceae.

From Kita-Inukai village.

218250. STIPA SIBIRICA (L.) Lam. Poaceae.

From Siobara Spa. Oct. 25, 1953.

218251. TRITICUM. Poaceae.

*Triticum aestivum* × *Secale cereale*.



**218252. FRAGARIA. Rosaceae.****Strawberry.**

From Tasmania. Plants presented by the Department of Agriculture, Hobart.  
Received June 15, 1954.

*Ettersburg Tree.*

**218253. VITIS VINIFERA L. Vitaceae.****European grape.**

From Western Australia. Cuttings presented by the Department of Agriculture, Perth. Received June 15, 1954. Grown at Bakers Hill.

*White Nice.*

**218254 to 218262. CITRUS spp. Rutaceae.**

From Spain. Budwood presented by Carlos Escriva, Valencia. Received June 15, 1954.

**218254 to 218256. CITRUS RETICULATA Blanco.****Mandarin orange.**

218254. *Clementine.* From Alcacer.

218255. *Satsuma.* From Torrente.

218256. Common mandarin. From Torrente.

**218257 to 218262. CITRUS SINENSIS (L.) Osbeck.****Orange.**

218257. *Blood Oval.* (*Sangre Doble Fina.*)

218258. *Cadenera.* From Carcagente.

218259. *Comunas.* From Gandia.

218260. *Salustiana.* From Carcagente.

218261. *Valencia.* From Carcagente.

218262. *Victoria.* Finca del Realengo de Oriol.

**218263 to 219557.**

From Kansas. Material collected by the Kansas Agricultural Experiment Station, Manhattan. Numbered June 15, 1954.

Collected in 1953. Place of origin as indicated.

**218263 to 218422. ANDROPOGON GERARDII Vitm. Poaceae. Big bluestem.**

218263 to 218298. Kansas.

218263 to 218265. Northeast of Pratt. Seeds poorly.

218263. No. 15.

218264. No. 16.

218265. No. 17.

218266. No. 31. Southwest of Turon. Seeds fairly well.

218267. No. 32. Southwest of Turon. Seeds fairly well.

218268. No. 33. Near Turon. Seeds fairly well.

218269. No. 34. Southwest of Turon. Seeds fairly well.

218270. No. 53. Five miles west of Buhler.

218271. No. 63. Near Mears Park. Seeds poorly.

218272. No. 99. Franklin County. Heads many, seeds poorly.

218273. No. 116. One mile east of Welda.

218274. No. 133. One mile north of Kincaid.

218275. No. 134. One mile north of Kincaid.

218276. No. 135. One mile west of Kincaid.

218277. No. 138. Near airport, Tola.

**218263 to 219557—Continued****218263 to 218422—Continued****218263 to 218298—Continued**

218278 to 218283. From P. B. Fegby farm, Allen County.

218278. No. 140. 218281. No. 143. Clumps large.

218279. No. 141. Clumps large. 218282. No. 144. Clumps large.

218280. No. 142. Clumps large. 218283. No. 145. Clumps large.

218284. No. 159. Harold Baker farm, Allen County. Clumps large.

218285 to 218287. J. O. Hicks farm, Allen County.

218285. No. 180.

218286. No. 181.

218287. No. 182.

218288. No. 188. Roadside, Caffey County.

218289. No. 193. One mile east and  $3\frac{1}{2}$  miles south of Burlington.  
Tall clump.

218290. No. 206. Bourbon County.

218291. No. 242. Four miles west of Treece. Seeds poorly.

218292. No. 255. Two miles south and 10 miles west of Treece. Seeds  
poorly.

218293. No. 256. Two miles south and 10 miles west of Treece. Seeds  
poorly.

218294. No. 258. Bottomland, Cherokee County.

218295. No. 286. One-half mile south of Carlton.

218296 to 218298. Three and one-half miles west and  $1\frac{1}{2}$  miles north  
of Altoona.

218296. No. 288.

218297. No. 289.

218298. No. 290.

**218299 to 218400. Oklahoma.**

218299. No. 322. North of Herd.

218300. No. 331. West of U.S. 60.

218301. No. 346. Three miles west of Bartellsville.

218302. No. 347. Three miles west of Bartellsville. Tall clump.

218303. No. 353. West of Skiatook.

218304. No. 264. Two miles west of Haming.

218305. No. 268. Two miles west of Fairfax.

218306. No. 393. Twelve miles south of Ponca City.

218307. No. 394. Twelve miles south of Ponca City.

218308. No. 402. Five miles east of Oklahoma. No. 40 southeast of  
Ponca City.

218309. No. 420. Four miles west of Drumright.

218310. No. 423. Four miles west of Cushing.

218311. No. 433. Eight miles north of Stillwater.

218312. No. 442. Nineteen miles north of Stillwater.

## 218263 to 219557—Continued

## 218263 to 218422—Continued

## 218299 to 218400—Continued

218313. No. 445. Two miles south of Perkins.

218314. No. 447. Seven miles east of Perkins.

218315. No. 453. Six miles east of Agra.

218316. No. 460. Five miles north of Stroud.

218317. No. 466. Ten miles northeast of Stroud.

218318. No. 470. Sixteen miles southeast of Bristow.

218319. No. 481. Fifteen miles west of Okmulgee.

218320. No. 494. Five miles southwest of Okemah.

218321 to 218323. Five miles southeast of Shawnee.

218321. No. 507.

218322. No. 508.

218323. No. 509.

218324 to 218326. Five miles northwest of Asher.

218324. No. 529.

218325. No. 530.

218326. No. 531.

218327. No. 577. Six miles northeast of Pauls Valley.

218328. No. 581. One mile west of Stratford.

218329 to 218337. Two miles southeast of Ada.

218329. No. 590. Smut and ergot present.

218330. No. 603.

218334. No. 607.

218331. No. 604.

218335. No. 608.

218332. No. 605.

218336. No. 609.

218333. No. 606.

218337. No. 610.

218338 to 218349. Two miles east of Centrahoma.

218338. No. 618.

218344. No. 624.

218339. No. 619.

218345. No. 625.

218340. No. 620.

218346. No. 626.

218341. No. 621.

218347. No. 627.

218342. No. 622.

218348. No. 628.

218343. No. 623.

218349. No. 628a.

218350 to 218364. Two miles southeast of Lehigh.

218350. No. 646.

218358. No. 654.

218351. No. 647.

218359. No. 655.

218352. No. 648.

218360. No. 656.

218353. No. 649.

218361. No. 657.

218354. No. 650.

218362. No. 658.

218355. No. 651.

218363. No. 659.

218356. No. 652.

218364. No. 660.

218357. No. 653.

**218263 to 219557—Continued****218263 to 218422—Continued****218299 to 218400—Continued**

218365 to 218371. One mile north of Stringtown.

218365. No. 701. 218369. No. 706.

218366. No. 702. 218370. No. 707.

218367. No. 704. 218371. No. 708.

218368. No. 705.

218372. No. 709. One mile west of Stringtown.

218373 to 218379. West of Gap.

218373. No. 726. 218377. No. 730.

218374. No. 727. 218378. No. 731.

218375. No. 728. 218379. No. 732.

218376. No. 729.

218380 to 218385. Five miles west of McAlister.

218380. No. 747. 218383. No. 750.

218381. No. 748. 218384. No. 751.

218382. No. 749. 218385. No. 752.

218386 to 218388. Ten miles east of Madill.

218386. No. 804.

218387. No. 805.

218388. No. 806.

218389 to 218395. Five miles west of Durant.

218389. No. 829. 218393. No. 833.

218390. No. 830. 218394. No. 834.

218391. No. 831. 218395. No. 835.

218392. No. 832.

218396 to 218399. Southeast of Bennington.

218396. No. 857. 218398. No. 859.

218397. No. 858. 218399. No. 860.

218400. No. 861. Two miles east of Boswell.

218401. No. 891. One mile north of Farreston, Tex.

218402 to 218413. Oklahoma.

218402 to 218408. U.S. 77.

218402. No. 970. 218406. No. 975.

218403. No. 971. 218407. No. 976.

218404. No. 972. 218408. No. 977.

218405. No. 973.

218409. No. 994. Scullin.

218410. No. 1015. Southwest edge of Roff.

218411. No. 1022. Railroad; 1½ miles northeast of Fitzhugh.

218412. No. 1030. Two miles north of Aydellatte.

218413. No. 1031. Two miles north of Aydellatte.



**218263 to 219557—Continued****218263 to 218422—Continued**

218414. No. 1048. Ottawa, Kans.

218415 and 218416. Oklahoma.

218415. No. 1049. Twenty miles north of Stillwater.

218416. No. 1050. Ten miles east of Perkins.

218417 to 218419. Kansas.

218417. No. P 64. Thirteen miles east of Turon.

218418. No. P 71. One-half mile southwest of Kingman.

218419. No. P 130. Four and one-half miles south of Sedgewick.

218420 to 218422. Oklahoma.

218420. No. P 237. Thirty-one miles northeast of Chandler.

218421. No. P 241. Twelve miles northwest of Drumright.

218422. No. P 244. Four miles west of Yale.

218423 to 218467. *ANDROPOGON HALLII* Hack.

Sand bluestem.

218423 to 218433. Kansas.

218423. No. P 4. One mile southwest of Partridge.

218424. No. P 21. Three miles west of Greensburg.

218425. No. P 23. Six miles west of Greensburg.

218426. No. P 31. Three miles southeast of Kinsley.

218427. No. P 41. Three miles southwest of Macksville.

218428. No. P 45. Five miles south of Macksville.

218429. No. P 47. Six miles south of Macksville.

218330. No. P 54. Eight miles southeast of Macksville.

218431. No. P 59. Five miles southeast of Stafford.

218432. No. P 81. One mile south of Rago.

218433. No. P 83. Six and one-half miles south of Attica.

218434 to 218439. Oklahoma.

218434. No. P 89. Two miles east of Capron.

218435. No. P 93. Two miles northeast of Alva.

218436. No. P 97. Fourteen miles east of Alva.

218437. No. P 107. Salt Plains Reservoir Dam.

218438. No. P 113. Three miles north of Nash.

218439. No. P 128. Four miles northwest of Ponca City.

218440 to 218444. Kansas.

218440. No. P 154. Two miles west of Attica.

218441. No. P 157. One-half mile south of Sharon.

218442. No. P 165. Ten miles west of Medicine Lodge.

218443. No. P 168. Three miles west of Lake City.

218444. No. P 171. Fifteen miles east of Coldwater.

218445 to 218466. Oklahoma.

218445. No. P 173. Seven miles northwest of Alva.

218446. No. P 177. Ten miles south of Alva.

## 218263 to 219557—Continued

## 218423 to 218467—Continued

## 218445 to 218466—Continued

218447. No. P 179. Fifteen miles south of Alva.  
218448. No. P 182. Sixteen miles south of Alva.  
218449. No. P 186. Seven miles south of Carmen.  
218450. No. P 189. Two miles south of Clear Springs.  
218451. No. P 192. Enid.  
218452. No. P 194. Five miles north of Drummond.  
218453. No. P 200. Nineteen miles southwest of Drummond.  
218454. No. P 208. Nine miles southeast of Watonga.  
218455. No. P 226. Two miles northwest of Tecumseh.  
218456. No. P 234. Twenty-two miles northeast of Chandler.  
218457. No. P 250. Ten miles north of El Reno.  
218458. No. P 251. Ten miles north of El Reno.  
218459. No. P 254. Ten miles southwest of Chickasha.  
218460. No. P 274. Two miles north of Manitou.  
218461. No. P 275. One mile north of Manitou.  
218462. No. P 276. One mile north of Manitou.  
218463. No. P 280. Four miles south of Manitou.  
218464. No. P 281. Four miles south of Manitou.  
218465. No. P 282. Two miles south of Frederick.  
218466. No. P 283. Two miles south of Frederick.  
218467. No. P 288. One mile east of Oklaunion, Tex.  
218468. *ANDROPOGON SACCHAROIDES* Swartz. Silver beardgrass.  
No. 214. Three miles west of Girard, Tex.  
218469 to 218688. *ANDROPOGON SCOPARIUS* Michx. Little beardgrass.  
218469 to 218480. Kansas.  
218469. No. 9. Three miles east of St. John.  
218470. No. 18. Northeast of Pratt.  
218471. No. 19. Northeast of Pratt.  
218472. No. 35. Southwest of Turon.  
218473. No. 117. One mile east of Welda.  
218474. No. 118. One mile east of Welda.  
218475. No. 158. Allen County.  
218476. No. 174. St. Johns Cemetery, Allen County.  
218477. No. 198. Near Paxico.  
218478. No. 251. Four miles west of Treece.  
218479. No. 294. Three and one-half miles west and 1½ miles north of Altoona.  
218480. No. 307. Ten miles south of Alma.

**218263 to 219557—Continued****218469 to 218688—Continued**

218481 to 218618. Oklahoma.

218481. No. 324. North of Herd.

218482. No. 329. North of U.S. 60.

218483 to 218486. Three miles west of Bartellsville.

218483. No. 342. 218485. No. 344.

218484. No. 343. 218486. No. 345.

218487. No. 354. West of Skiatook.

218488. No. 358. West of Skiatook.

218489. No. 362. Two miles west of Homing.

218490. No. 369. Two miles west of Fairfax.

218491. No. 395. Twelve miles south of Ponca City.

218492. No. 415. One mile south of Hallett.

218493. No. 419. Four miles west of Drumright.

218494. No. 426. Four miles west of Cushing.

218495 to 218497. Eight miles north of Stillwater.

218495. No. 434.

218496. No. 435.

218497. No. 436.

218498. No. 441. Nineteen miles north of Stillwater.

218499. No. 446. Two miles south of Perkins.

218500. No. 451. Seven miles east of Perkins.

218501. No. 454. Six miles east of Agra.

218502. No. 462. Five miles west of Stroud.

218503. No. 463. Five miles north of Stroud.

218504. No. 467. Ten miles northeast of Bristow.

218505. No. 471. Sixteen miles southeast of Bristow.

218506. No. 480. Ten miles northwest of Okmulgee.

218507. No. 482. Fifteen miles west of Okmulgee.

218508 to 218511. Five miles southwest of Okemah.

218508. No. 495. 218510. No. 497.

218509. No. 496. 218511. No. 498.

218512. No. 510. Five miles southeast of Shawnee.

218513. No. 511. Five miles southeast of Shawnee.

218514 to 218516. Ten miles south of Tecumseh.

218514. No. 525.

218515. No. 526.

218516. No. 527.

218517. No. 532. Five miles northwest of Asher.

218518. No. 548. North of Tribbey.

218519. No. 553. Five miles west of Purcell.

218520. No. 554. Five miles west of Purcell.

## 218263 to 219557—Continued

## 218469 to 218688—Continued

## 218481 to 218618—Continued

218521 to 218524. Eight miles south of Maysville.

218521. No. 563. 218523. No. 565.

218522. No. 564. 218524. No. 568.

218525. No. 576. Six miles east of Elmore City.

218526. No. 578. Six miles northeast of Pauls Valley.

218527. No. 582. One mile west of Stratford.

218528 to 218540. Two miles southeast of Ada.

218528. No. 591. 218535. No. 598.

218529. No. 592. 218536. No. 599.

218530. No. 593. 218537. No. 613.

218531. No. 594. 218538. No. 614.

218532. No. 595. 218539. No. 615.

218533. No. 596. 218540. No. 616.

218534. No. 597.

218541 to 218548. Two miles east of Centrahoma.

218541. No. 632. 218545. No. 636.

218542. No. 633. 218546. No. 637.

218543. No. 634. 218547. No. 638.

218544. No. 635. 218548. No. 639.

218549 to 218557. Two miles southeast of Lehigh.

218549. No. 675. 218554. No. 680.

218550. No. 676. 218555. No. 681.

218551. No. 677. 218556. No. 682.

218552. No. 678. 218557. No. 683.

218553. No. 679.

218558 to 218563. One mile north of Stringtown.

218558. No. 695. 218561. No. 698.

218559. No. 696. 218562. No. 699.

218560. No. 697. 218563. No. 700.

218564 to 218568. North of Gap.

218564. No. 733. 218567. No. 736.

218565. No. 734. 218568. No. 737.

218566. No. 735.

218569 to 218574. Five miles north of McAlester.

218569. No. 753. 218572. No. 756.

218570. No. 754. 218573. No. 757.

218571. No. 755. 218574. No. 758.



## 218263 to 219557—Continued

## 218469 to 218688—Continued

## 218481 to 218618—Continued

## 218575 to 218590. Three miles east of Ardmore.

218575.	No. 772.	218583.	No. 785.
218576.	No. 773.	218584.	No. 786.
218577.	No. 774.	218585.	No. 787.
218578.	No. 780.	218586.	No. 788.
218579.	No. 781.	218587.	No. 789.
218580.	No. 782.	218588.	No. 790.
218581.	No. 783.	218589.	No. 791.
218582.	No. 784.	218590.	No. 792.

## 218591 to 218594. Ten miles east of Madill.

218591.	No. 813.	218593.	No. 815.
218592.	No. 814.	218594.	No. 816.

## 218595 to 218597. Seventeen miles east of Madill.

218595.	No. 819.
218596.	No. 820.
218597.	No. 821.

## 218598 to 218601. Five miles north of Durant.

218598.	No. 825.	218600.	No. 827.
218599.	No. 826.	218601.	No. 828.

## 218602 to 218607. Ten miles east of Durant.

218602.	No. 842.	218605.	No. 845.
218603.	No. 843.	218606.	No. 846.
218604.	No. 844.	218607.	No. 847.

## 218608 to 218610. Five miles east of Bennington.

218608.	No. 848.
218609.	No. 849.
218610.	No. 851.

## 218611. No. 821A. Seventeen miles east of Madill.

## 218612. No. 828A. Five miles north of Durant.

## 218613 to 218617. Five miles east of Bennington.

218613.	No. 852.	218616.	No. 855.
218614.	No. 853.	218617.	No. 856.
218615.	No. 854.		

## 218618. No. 864. Two miles east of Boswell.

## 218619. No. 870. Two miles south of Arthur City, Tex.

## 218620. No. 779. Three miles east of Ardmore, Okla.

## 218621 to 218650. Texas.

218621.	No. 882.	Five miles southwest of Kaufman.
218622.	No. 883.	Five miles southwest of Kaufman.
218623.	No. 893.	One mile north of Forreston.

## 218263 to 219557—Continued

## 218469 to 218688—Continued

## 218621 to 218650—Continued

218624 to 218628. Five miles north of Arlington.

218624. No. 895. 218627. No. 898.

218625. No. 896. 218628. No. 899.

218626. No. 897.

218629 to 218635. Four miles north of Sells.

218629. No. 901. 218633. No. 905.

218630. No. 902. 218634. No. 906.

218631. No. 903. 218635. No. 906A.

218632. No. 904.

218636 to 218638. Five miles west of Bonham.

218636. No. 911.

218637. No. 911A.

218638. No. 912.

218639. No. 912A. Two miles west of Bells.

218640 to 218642. Five miles west of Bonham.

218640. No. 913.

218641. No. 913A.

218642. No. 914.

218643 to 218645. Two miles west of Bells.

218643. No. 917A.

218644. No. 918A.

218645. No. 919A.

218646 to 218650. Four miles west of Whitesboro.

218646. No. 931. 218649. No. 934.

218647. No. 932. 218650. No. 935.

218648. No. 933.

218651 to 218686. Oklahoma.

218651 to 218666. Ten miles north of Red River.

218651. No. 939. 218659. No. 946.

218652. No. 940. 218660. No. 946A.

218653. No. 941. 218661. No. 947.

218654. No. 941A. 218662. No. 948.

218655. No. 942. 218663. No. 950.

218656. No. 943. 218664. No. 951.

218657. No. 944. 218665. No. 952.

218658. No. 945. 218666. No. 953.

218667. No. 983. U.S. 77.

218668. No. 984. U.S. 77.

218669. No. 990. Five miles east of Davis.

## 218263 to 219557—Continued

## 218469 to 218688—Continued

## 218651 to 218686—Continued

218670 to 218672. Edge of Scullin.

218670. No. 991.

218671. No. 992.

218672. No. 993.

218673 to 218677. Southwest edge of Roff.

218673. No. 1002.

218676. No. 1005.

218674. No. 1003.

218677. No. 1007.

218675. No. 1004.

218678 to 218682. One and one-half miles northeast of Fitzhugh.

218678. No. 1016.

218681. No. 1019.

218679. No. 1017.

218682. No. 1020.

218680. No. 1018.

218683. No. 1032. Two miles north of Aydelotte.

218684. No. 1035. Three miles north of turnpike out of Chandler.

218685. No. 1036. Three miles north of turnpike out of Chandler.

218686. No. 1041. Three miles north of Agra.

218687 and 218688. Kansas.

218687. No. 1047. Ottawa.

218688. No. P 27. Three miles southeast of Kinsley.

218689 to 218701. *BOUPELOUA CURTIPENDULA* (Michx.) Torr. Poaceae.  
Side-oats grama.

218689 to 218691. Kansas.

218689. No. 36. Southwest of Turon.

218690. No. 157. Harold Baker farm, Allen County.

218691. No. 177. Harry Drago farm, Allen County.

218692 to 218696. Oklahoma.

218692. No. 586. One mile west of Stratford.

218693. No. 600. Two miles southeast of Ada.

218694. No. 601. Two miles southeast of Ada.

218695. No. 985. Along U.S. 77.

218696. No. 1021. Northeast of Fitzhugh.

218697. No. 1095. Devine, Tex.

218698. No. 1096. Nuiford, Tex.

218699. No. 131. Four and one-half miles south of Sedgewick, Kans.

218700. No. 152. Two miles west of Attica, Kans.

218701. No. 234. Two miles south of Frederick, Okla.

218702 and 218703. *BOUPELOUA GRACILIS* (H. B. K.) Lag. Blue grama.

218702. No. 37. Southwest of Turon, Kansas.

218703. No. 30. Three miles southeast of Kinsley.

218704. *BOUPELOUA HIRSUTA* Lag.

Hairy grama.

No. 401. Southeast of Ponca City, Okla.

## 218263 to 219557—Continued

218705 and 218706. CALAMOVILFA GIGANTEA (Nutt.) Scribn. & Merr.  
Poaceae.

218705. No. P 44. Five miles southwest of Macksville, Kans.

218706. No. P 104. Two miles northwest of Salt Plains Reservoir Dam,  
Okla.

218707 to 218780. ERAGROSTIS TRICHODES (Nutt.) Wood. Poaceae.  
Lovegrass.

218707 to 218713. Kansas.

218707 to 218709. Three miles north of Sylvia.

218707. No. 1.

218708. No. 2.

218709. No. 3.

218710 to 218712. Seven miles west of Stafford.

218710. No. 4.

218711. No. 5.

218712. No. 6.

218713. No. 8. Three miles east of St. John.

218714 to 218741. Oklahoma.

218714 to 218720. Twelve miles west of Fairfax.

218714. No. 378. 218718. No. 382.

218715. No. 379. 218719. No. 383.

218716. No. 380. 218720. No. 384.

218717. No. 381.

218721. No. 450. Seven miles east of Perkins.

218722. No. 468. Ten miles northeast of Stroud.

218723. No. 477. Ten miles north of Okmulgee.

218724 to 218727. Fifteen miles west of Okmulgee.

218724. No. 486. 218726. No. 488.

218725. No. 487. 218727. No. 490.

218728 to 218734. Near Tribbey.

218728. No. 541. 218732. No. 545.

218729. No. 542. 218733. No. 546.

218730. No. 543. 218734. No. 547.

218731. No. 544.

218735. No. 964. Ten miles north of Red River.

218736 to 218741. Twelve miles north of Red River.

218736. No. 965. 218739. No. 967.

218737. No. 966A. 218740. No. 968.

218738. No. 966. 218741. No. 969.

218742 to 218758. Kansas.

218742. No. P 5. Five miles west of Partridge.

218743. No. P 7. Two miles south of St. John.

218744. No. P 11. Four miles west of St. John.



**218263 to 219557—Continued****218707 to 218780—Continued****218742 to 218758—Continued**

- 218745. No. P 24. Six miles west of Greensburg.
- 218746. No. P 25. Five miles southeast of Kinsley.
- 218747. No. P 32. Three miles southeast of Kinsley.
- 218748. No. P 39. Five miles southeast of Belpre.
- 218749. No. P 40. Four miles southwest of Macksville.
- 218750. No. P 43. Three and one-half miles southwest of Macksville.
- 218751. No. P 52. Seven miles southeast of Macksville.
- 218752. No. P 52A. Three miles southwest of Sylvia.
- 218753. No. P 69. Kingman.
- 218754. No. P 75. Two miles southwest of Kingman.
- 218755. No. P 78. Three miles south of Belmont.
- 218756. No. P 86. Seven miles south of Attica.
- 218757. No. P 87. Three miles northeast of Carwin.
- 218758. No. P 98. Fourteen miles east of Alva.

**218759 to 218764. Oklahoma.**

- 218759. No. P 103. One mile north of Salt Plains Reservoir Dam.
- 218760. No. P 106. Two miles northwest of Salt Plains Reservoir Dam.
- 218761. No. P 110. Two miles south of Hawley.
- 218762. No. P 115. Ten miles east of Hawley.
- 218763. No. P 117. Four miles east of Pondcreek.
- 218764. No. P 118. Three miles south of Lamont.

**218765. No. P 144. Twenty miles south of Conway Springs, Kans.****218766. No. P 15. Six miles north and 8 miles west of Anthony, Okla.****218767 to 218769. Kansas.**

- 218767. No. P 155. Six miles west of Attica.
- 218768. No. P 161. Two miles east of Medicine Lodge.
- 218769. No. P 169. Fifteen miles east of Coldwater.

**218770 to 218780. Oklahoma.**

- 218770. No. P 178. Fifteen miles south of Alva.
- 218771. No. P 197. Ten miles southwest of Drummond.
- 218772. No. P 202. Four miles west of Lacey.
- 218773. No. P 207. Nine miles southeast of Watonga.
- 218774. No. P 210. Fourteen miles southeast of Watonga.
- 218775. No. P 221. Six miles southeast of Norman.
- 218776. No. P 229. Eight miles southeast of Chandler.
- 218777. No. P 230. Ten miles north of Chandler.
- 218778. No. P 239. Twelve miles northwest of Drumright.
- 218779. No. P 242. Sixteen miles northwest of Drumright.
- 218780. No. P. 246. Ten miles southwest of Yale.

## 218263 to 219557—Continued

218781. *PANICUM ANCEPS* Michx. Poaceae.

No. 254. Two miles south and 9 miles west of Treece, Kans.

218782 to 219012. *PANICUM VIRGATUM* L.

Switch grass.

218782 to 218850. Kansas.

218782. No. 13. Three miles east of St. John.

218783. No. 14. Three miles east of St. John.

218784 to 218794. Southwest of Turon.

218784. No. 20. 218790. No. 26.

218785. No. 21. 218791. No. 27.

218786. No. 22. 218792. No. 28.

218787. No. 23. 218793. No. 29.

218788. No. 24. 218794. No. 30.

218789. No. 25.

218795 to 218798. Five miles north of Buhler.

218795. No. 54. 218797. No. 56.

218796. No. 55. 218798. No. 57.

218799 to 218801. East of Inman.

218799. No. 58.

218800. No. 59.

218801. No. 60.

218802. No. 62. Two miles north of Peoria and 6 miles east of Ottawa.

218803. No. 64. Mears Park.

218804. No. 74. Peoria.

218805 to 218808. Two and one-half miles west of Osawatomie.

218805. No. 90. 218807. No. 92.

218806. No. 91. 218808. No. 93.

218809. No. 98. Franklin County.

218810. No. 102. One mile west and 1 mile south of Garnett.

218811 to 218815. One mile east of Welda.

218811. No. 108. 218814. No. 111.

218812. No. 109. 218815. No. 112.

218813. No. 110.

218816. No. 120. Garnett Lake.

218817. No. 123. Two miles south of Anderson County line.

218818. No. 136. One mile north of Kincaid.

218819. No. 155. Three miles south of cement plant, Iola.

218820. No. 156. Three miles south of cement plant, Iola.

218821. No. 176. Allen County.

218822. No. 184. Two miles south and ½ mile east of Burlington.

218823. No. 204. Three miles south and 4½ miles west of Fort Scott.

218824. No. 205. Three miles south and 4½ miles west of Fort Scott.

218825. No. 213. Two miles south of Hepler.

## 218263 to 219557—Continued

## 218782 to 219012—Continued

## 218782 to 218850—Continued

## 218826 to 218836. West edge of Treece.

218826. No. 231. 218832. No. 237.

218827. No. 232. 218833. No. 238.

218828. No. 233. 218834. No. 239.

218829. No. 234. 218835. No. 240.

218830. No. 235. 218836. No. 241.

218831. No. 236.

## 218837 to 218841. Four miles west of Treece.

218837. No. 243. 218840. No. 246.

218838. No. 244. 218841. No. 247.

218839. No. 245.

## 218842. No. 269. Two miles north of Parson.

## 218843. No. 271. One-half mile west and 4 miles north of Altamont.

## 218844. No. 276. Ordnance plant, Labette County.

## 218845. No. 277. Ordnance plant, Labette County.

## 218846. No. 285. One-half mile south of Earleton.

## 218847. No. 291. Three and one-half miles west and 1½ miles north of Altoona.

## 218848. No. 292. Three and one-half miles west and 1½ miles north of Altoona.

## 218849. No. 308. Ten miles south of Alma.

## 218850. No. 309. Ten miles south of Alma.

## 218851 to 218897. Oklahoma.

## 218851. No. 325. North of Herd.

## 218852. No. 332. Along Oklahoma No. 96, north of U. S. No. 60.

## 218853. No. 340. Three miles west of Bartelsville.

## 218854. No. 341. Three miles west of Bartelsville.

## 218855. No. 348. One and three-tenths miles south of Watova.

## 218856. No. 363. Two miles west of Horning.

## 218857. No. 382-A. Twelve miles west of Fairfax.

## 218858. No. 396. Twelve miles south of Ponca City.

## 218859. No. 406. Five miles east of Oklahoma No. 40 on Oklahoma No. 15. (Southeast of Ponca City.)

## 218860. No. 416. One mile south of Hallett.

## 218861. No. 425. Four miles west of Cushing.

## 218862. No. 431. Eight miles north of Stillwater.

## 218863. No. 439. Nineteen miles north of Stillwater.

## 218864. No. 444. Two miles south of Perkins.

## 218865. No. 449. Seven miles east of Perkins.

## 218866. No. 457. Six miles east of Agra.

## 218867. No. 465. Five miles north of Stroud.

**218263 to 219557—Continued****218782 to 219012—Continued****218851 to 218897—Continued**

218868. No. 472. Sixteen miles southeast of Bristow.  
218869. No. 479. Ten miles northwest of Okmulgee.  
218870. No. 485. Fifteen miles west of Okmulgee.  
218871. No. 516. Five miles southeast of Shawnee.  
218872. No. 540. Five miles northwest of Asher.  
218873. No. 559. Five miles west of Purcell.  
218874. No. 580. Six miles northeast of Pauls Valley.  
218875. No. 587. One mile west of Stratford.  
218876. No. 588. Two miles southeast of Ada.  
218877. No. 612. Two miles southeast of Ada.  
218878 to 218881. Two miles east of Centrahoma.  
218878. No. 640. 218880. No. 642.  
218879. No. 641. 218881. No. 643.  
218882 to 218884. U.S. 75 at east edge of Coal County.  
218882. No. 671.  
218883. No. 672.  
218884. No. 673.  
218885 to 218887. One mile north of Stringtown.  
218885. No. 688.  
218886. No. 689.  
218887. No. 694.  
218888 to 218892. North of Gap.  
218888. No. 720. 218891. No. 723.  
218889. No. 721. 218892. No. 725.  
218890. No. 722.  
218893. No. 763. Five miles north of McAlester.  
218894. No. 764. Five miles north of McAlester.  
218895. No. 817. Ten miles east of Madill.  
218896. No. 822. Seventeen miles east of Madill.  
218897. No. 823. Seventeen miles east of Madill.  
218898 to 218904. Texas.  
218898 to 218900. Five miles southwest of Kaufman.  
218898. No. 878.  
218899. No. 879.  
218900. No. 880.  
218901. No. 915. Two miles west of Bells.  
218902. No. 915A. Five miles west of Bonham.  
218903. No. 916. Five miles west of Bonham.  
218904. No. 916A. Two miles west of Bells.



**218263 to 219557—Continued****218782 to 219012—Continued****218905 to 218915. Oklahoma.****218905 to 218909. Ten miles north of Red River.****218905. No. 954. 218908. No. 957.****218906. No. 955. 218909. No. 958.****218907. No. 956.****218910. No. 986. Five miles east of Davis.****218911. No. 987. Five miles east of Davis.****218912 to 218915. Southwest edge of Roff.****218912. No. 997. 218914. No. 999.****218913. No. 998. 218915. No. 1000.****218916 to 218944. Kansas.****218916. No. 1044. Ottawa.****218917. No. 1046. Turon.****218918. No. 1085. Franklin County.****218919. No. P 1. One-half mile north of Hutchinson.****218920. No. P 2. Three-fourths mile north of Hutchinson.****218921. No. P 6. Five miles west of Partridge.****218922. No. P 10. Ten miles south and 4 miles west of St. John.****218923. No. P 16. Three miles west and 1 mile south of Pratt.****218924. No. P 22. Four miles west of Greensburg.****218925. No. P 26. Five miles southeast of Kinsley.****218926. No. P 29. Two miles southeast of Kinsley.****218927. No. P 33. Two miles north of Kinsley.****218928. No. P 34. One and one-half miles northeast of Kinsley.****218929. No. P 35. Two miles southeast of Belpre.****218930. No. P 36. Two miles southeast of Belpre.****218931. No. P 37. Four miles southeast of Belpre.****218932. No. P 42. Three miles southwest of Macksville.****218933. No. P 49. Seven and one-fourth miles south of Macksville.****218934. No. P 50. Seven and one-half miles south of Macksville.****218935. No. P 53. Eight miles southeast of Macksville.****218936. No. P 57. Six miles southeast of Stafford.****218937. No. P 58. Six miles southeast of Stafford.****218938. No. P 65. Thirteen miles east of Turon.****218939. No. P 67. Two miles south of Pretty Prairie.****218940. No. P 70. One-half mile southwest of Kingman.****218941. No. P 74. Two miles southwest of Kingman.****218942. No. P 80. One mile south of Kingman.****218943. No. P 84. Six and one-half miles south of Attica.****218944. No. P 85. Seven miles south of Attica.**

## 218263 to 219557—Continued

## 218782 to 219012—Continued

## 218945 to 218957. Oklahoma.

- 218945. No. P 92. Two miles northeast of Alva.
- 218946. No. P 94. Four miles east of Alva.
- 218947. No. P 95. Fourteen miles east of Alva.
- 218948. No. P 100. Fourteen miles east of Alva.
- 218949. No. P 101. Three miles southeast of Cherokee.
- 218950. No. P 105. Two miles northwest of Salt Plains Reservoir Dam.
- 218951. No. P 111. Two miles south of Hawley.
- 218952. No. P 120. Three miles south of Lamont.
- 218953. No. P 122. Nine miles southeast of Lamont.
- 218954. No. P 123. Six miles southwest of Blackwell.
- 218955. No. P 124. One mile west of Blackwell.
- 218956. No. P 127. Four miles northwest of Ponca City.
- 218957. No. P 129. One mile west of Ponca City.

## 218958 to 218970. Kansas.

- 218958. No. P 133. Two miles southwest of airport, Wichita.
- 218959. No. P 135. One-half mile northeast of Clearwater.
- 218960. No. P 137. One-half mile northeast of Clearwater.
- 218961. No. P 140. One-fourth mile north of Conway Springs.
- 218962. No. P 142. Fourteen miles south of Conway Springs.
- 218963. No. P 146. Three miles north of Caldwell.
- 218964. No. P 148. Three miles north of Anthony.
- 218965. No. P 150. Six miles north and 6 miles west of Anthony.
- 218966. No. P 156. Six miles west of Attica.
- 218967. No. P 158. One-half mile south of Sharon.
- 218968. No. P 162. Two miles east of Medicine Lodge.
- 218969. No. P 164. Ten miles west of Medicine Lodge.
- 218970. No. P 167. Three miles west of Lake City.

## 218971 to 218993. Oklahoma.

- 218971. No. P 175. Ten miles south of Alva.
- 218972. No. P 183. Fifteen miles south and 1 mile east of Alva.
- 218973. No. P 184. Seven miles south of Carmen.
- 218974. No. P 187. Two miles south of Cleo Springs.
- 218975. No. P 188. Two miles south of Cleo Springs.
- 218976. No. P 191. Enid.
- 218977. No. P 193. Five miles south of Drummond.
- 218978. No. P 196. Two miles southwest of Drummond.
- 218979. No. P 198. Ten miles southwest of Drummond.
- 218980. No. P 199. Seventeen miles southwest of Drummond.
- 218981. No. P 203. Three miles west of Lacey.

**218263 to 219557—Continued****218782 to 219012—Continued****218971 to 218993—Continued**

- 218982. No. P 212. Three miles south of Union.
- 218983. No. P 215. Eight miles southwest of Wheatland.
- 218984. No. P 218. Ten miles southwest of Norman.
- 218985. No. P 220. Six miles southwest of Norman.
- 218986. No. P 227. Two miles northwest of Tecumseh.
- 218987. No. P 232. Thirteen miles north of Chandler.
- 218988. No. P 238. Thirty-one miles northeast of Chandler.
- 218989. No. P 248. Twenty miles southwest of Yale.
- 218990. No. P 258. One-half mile west of Cement.
- 218991. No. P 260. Thirteen miles southwest of Cement.
- 218992. No. P 261. Five miles east of Medicine Park.
- 218993. No. P 262. Five miles east of Medicine Park.

**218994 to 218997. Kansas.**

- 218994. No. P 266. Lake Lawton.
- 218995. No. P 268. Wichita.
- 218996. No. P 270. Wichita.
- 218997. No. P 271. Five miles west of Cache.

**218998 to 219001. Oklahoma.**

- 218998. No. P 278. One mile north of Manitou.
- 218999. No. P 279. Four miles south of Manitou.
- 219000. No. P 285. Two miles south of Frederick.
- 219001. No. P 286. Four miles south of Frederick.

**219002 to 219004. Texas.**

- 219002. No. P 291. One mile north of Aubrey.
- 219003. No. P 293. Two miles north of Collinsville.
- 219004. No. P 294. One mile south of Whitesboro.

**219005 to 219012. Oklahoma.**

- 219005. No. P 302. Fifteen miles southwest of Wilson.
- 219006. No. P 303. Ten miles east of Ryan.
- 219007. No. P 304. Ten miles east of Ryan.
- 219008. No. P 306. Five miles northwest of Ryan.
- 219009. No. P 308. Eleven miles northwest of Comanche.

**219010 to 219012. Lake Comanche, Okla.**

- 219010. P 309.
- 219011. P 310.
- 219012. P 311.

**219013 to 219020. PASPALUM FLORIDANUM Michx. Poaceae.****219013 to 219016. Oklahoma.**

- 219013. No. 422. Four miles west of Drumright.
- 219014. No. 505. Four miles north and 2 miles west of Seminole.

## 218263 to 219557—Continued

## 219013 to 219020—Continued

## 219013 to 219016—Continued

219015. No. 644. Two miles east of Centrahoma.

219016. No. 775. Three miles east of Ardmore.

## 219017 to 219020. Texas.

219017. No. 881. Five miles southwest of Kaufman.

219018. No. 937. Four miles west of Whitesboro.

219019. No. 1093. Groesbeck.

219020. No. 1094. Ross.

219021. *PASPALUM* sp.

No. 350. Thirteen miles south of Watova, Okla.

219022. *PASPALUM* sp.

No. 351. Thirteen miles south of Watova, Okla.

219023 to 219352. *SORGHASTRUM NUTANS* (L.) Nash. Poaceae.  
Indian grass.

## 219023 to 219081. Kansas.

219023. No. 10. Three miles east of St. John.

219024. No. 11. Three miles east of St. John.

## 219025 to 219029. Kansas No. 61 southwest of Turon.

219025. No. 48. 219028. No. 51.

219026. No. 49. 219029. No. 52.

219027. No. 50.

## 219030 to 219036. Two and one-half miles west of Osawatomie.

219030. No. 82. 219034. No. 87.

219031. No. 83. 219035. No. 88.

219032. No. 84. 219036. No. 89.

219033. No. 85.

## 219037. No. 100. Franklin County.

## 219038. No. 101. Franklin County.

## 219039 to 219041. One mile east of Welda.

219039. No. 113.

219040. No. 114.

219041. No. 115.

## 219042. No. 121. Garnett Lake.

## 219043 to 219046. One mile north of Kincaid.

219043. No. 128. 219045. No. 131.

219044. No. 129. 219046. No. 132.

## 219047 to 219052. Three miles south of cement plant, Iola.

219047. No. 146. 219050. No. 152.

219048. No. 147. 219051. No. 153.

219049. No. 150. 219052. No. 154.

## 219053. No. 160. Allen County.



## 218263 to 219557—Continued

## 219023 to 219352—Continued

## 219023 to 219081—Continued

219054 to 219056. Harold Baker farm, Allen County.

219054. No. 161.

219055. No. 162.

219056. No. 163.

219057 to 219064. St. Johns cemetery.

219057. No. 164.

219061. No. 168.

219058. No. 165.

219062. No. 169.

219059. No. 166.

219063. No. 170.

219060. No. 167.

219064. No. 173.

219065. No. 183. Two miles south and  $\frac{1}{2}$  mile east of Burlington.

219066. No. 197. Raxico.

219067. No. 211. Two miles south of Hepler.

219068. No. 217. Three miles west and 1 mile north of Gerard.

219069. No. 248. Four miles west of Treece.

219070. No. 257. Two miles south and 10 miles west of Treece.

219071 to 219078. Two and one-half miles south and 1 mile west of Columbus High School, Columbus.

219071. No. 260.

219075. No. 264.

219072. No. 261.

219076. No. 265.

219073. No. 262.

219077. No. 266.

219074. No. 263.

219078. No. 267.

219079. No. 287. Wilson County.

219080. No. 306. Ten miles south of Alma.

219081. No. 310. Southeast of Chalk.

## 219082 to 219193. Oklahoma.

219082. No. 323. Along Oklahoma No. 99, north of Herd.

219083. No. 330. Along Oklahoma No. 96, north of U. S. No. 60.

219084. No. 339. Three miles west of Bartlesville.

219085. No. 349. One and three-tenths miles south of Watova.

219086. No. 361. Two miles west of Horning.

219087. No. 370. Two miles west of Fairfax.

219088 to 219094. Twelve miles south of Ponca City.

219088. No. 385.

219092. No. 390.

219089. No. 387.

219093. No. 391.

219090. No. 388.

219094. No. 392.

219091. No. 389.

219095. No. 399. Five miles southeast of Ponca City.

219096. No. 400. Five miles southeast of Ponca City.

219097. No. 417. One mile south of Hallett.

219098. No. 421. Four miles west of Drumright.

**218263 to 219557—Continued****219023 to 219352—Continued****219082 to 219193—Continued**

219099. No. 424. Four miles west of Cushing.  
219100. No. 432. Eight miles north of Stillwater.  
219101. No. 437. Eight miles north of Stillwater.  
219102. No. 440. Nineteen miles north of Stillwater.  
219103. No. 443. Two miles south of Perkins.  
219104. No. 448. Seven miles east of Perkins.  
219105. No. 455. Six miles east of Agra.  
219106. No. 456. Six miles east of Agra.  
219107. No. 461. Five miles north of Stroud.  
219108. No. 473. Sixteen miles southeast of Bristow.  
219109. No. 484. Fifteen miles west of Okmulgee.  
219110. No. 492. Five miles southwest of Okemah.  
219111. No. 493. Five miles southwest of Okemah.  
219112 to 219116. Four miles north and 2 miles west of Seminole.  
219112. No. 499. 219115. No. 503.  
219113. No. 500. 219116. No. 504.  
219114. No. 502.

**219117 to 219120. Five miles southeast of Shawnee.**

219117. No. 512. 219119. No. 514.  
219118. No. 513. 219120. No. 515.

**219121 to 219126. Ten miles south of Tecumseh.**

219121. No. 519. 219124. No. 522.  
219122. No. 520. 219125. No. 523.  
219123. No. 521. 219126. No. 524.

**219127 to 219132. Five miles northwest of Asher.**

219127. No. 533. 219130. No. 537.  
219128. No. 534. 219131. No. 538.  
219129. No. 535. 219132. No. 539.

**219133 to 219135. Five miles west of Purcell.**

219133. No. 555.  
219134. No. 556.  
219135. No. 557.

**219136 to 219140. Six miles east of Elmore City.**

219136. No. 569. 219139. No. 573.  
219137. No. 571. 219140. No. 574.  
219138. No. 572.

**219141. No. 579. Six miles northeast of Paul's Valley.****219142 to 219144. One mile west of Stratford.**

219142. No. 583.  
219143. No. 584.  
219144. No. 585.

## 218263 to 219557—Continued

## 219023 to 219352—Continued

## 219082 to 219193—Continued

219145. No. 589. Two miles southeast of Ada.

219146. No. 611. Two miles southeast of Ada.

219147. No. 629. Two miles east of Centrahoma.

219148 to 219157. Two miles southeast of Lehigh.

219148. No. 661. 219153. No. 666.

219149. No. 662. 219154. No. 667.

219150. No. 663. 219155. No. 668.

219151. No. 664. 219156. No. 669.

219152. No. 665. 219157. No. 670.

219158 to 219165. One mile north of Stringtown.

219158. No. 703. 219162. No. 713.

219159. No. 710. 219163. No. 715.

219160. No. 711. 219164. No. 717.

219161. No. 712. 219165. No. 718.

219166 to 219170. North of Gap.

219166. No. 738. 219169. No. 745.

219167. No. 743. 219170. No. 746.

219168. No. 744.

219171 to 219174. Five miles north of McAlester.

219171. No. 759. 219173. No. 761.

219172. No. 760. 219174. No. 762.

219175 to 219184. Three miles east of Ardmore.

219175. No. 765. 219180. No. 796.

219176. No. 767. 219181. No. 797.

219177. No. 768. 219182. No. 800.

219178. No. 794. 219183. No. 802.

219179. No. 795. 219184. No. 803.

219185 to 219187. Ten miles east of Madill.

219185. No. 808.

219186. No. 809.

219187. No. 810.

219188 to 219191. Five miles north of Durant.

219188. No. 836. 219190. No. 839.

219189. No. 838. 219191. No. 841.

219192. No. 865. Two miles east of Boswell.

219193. No. 866. Two miles east of Boswell.

219194 to 219216. Texas.

219194 to 219196. Two miles south of Arthur City.

219194. No. 871.

219195. No. 872.

219196. No. 875.

## 218263 to 219557—Continued

## 219023 to 219352—Continued

## 219194 to 219216—Continued

219197. No. 885. Five miles southwest of Kaufman.

219198 to 219200. One mile north of Forresteron.

219198. No. 886.

219199. No. 888.

219200. No. 889.

219201. No. 909. Five miles west of Bonham.

219202. No. 910. Five miles west of Bonham.

219203 to 219216. Four miles west of Whitesboro.

219203. No. 917.

219210. No. 924.

219204. No. 918.

219211. No. 925.

219205. No. 919.

219212. No. 926.

219206. No. 920.

219213. No. 927.

219207. No. 921.

219214. No. 928.

219208. No. 922.

219215. No. 929.

219209. No. 923.

219216. No. 936.

219217 to 219247. Oklahoma.

219217 to 219219. Ten miles north of Red River.

219217. No. 959.

219218. No. 960.

219219. No. 961.

219220 to 219225. Along U. S. Route 77.

219220. No. 974.

219223. No. 980.

219221. No. 978.

219224. No. 981.

219222. No. 979.

219225. No. 982.

219226. No. 988. Five miles east of Davis.

219227. No. 989. Five miles east of Davis.

219228. No. 995. Scullin.

219229 to 219237. Southwest edge of Roff.

219229. No. 1006.

219234. No. 1011.

219230. No. 1007.

219235. No. 1012.

219231. No. 1008.

219236. No. 1013.

219232. No. 1009.

219237. No. 1014.

219233. No. 1010.

219238 to 219243. One and one-half miles northeast of Fitzhugh.

219238. No. 1023.

219241. No. 1026.

219239. No. 1024.

219242. No. 1028.

219240. No. 1025.

219243. No. 1029.

219244. No. 1037. Three miles north of Chandler.



**218263 to 219557—Continued****219023 to 219352—Continued****219217 to 219247—Continued**

219245 to 219247. Three miles north of Agra.

219245. No. 1038.

219246. No. 1039.

219247. No. 1040.

**219248 to 219250. Kansas.**

219248. No. 1051. Ben Kiefer farm, Ottawa.

219249. No. 1052. Ben Kiefer farm, Ottawa.

219250. No. 1053. Five miles south of Council Grove.

**219251. No. 1054. Twenty miles north of Stillwater, Okla.****219252 to 219277. Kansas.**

219252. No. 1086. Franklin County.

219253. No. P 3. One mile southwest of Partridge.

219254. No. P 8. Ten miles south of St. John.

219255. No. P 9. Ten miles west of St. John.

219256. No. P 12. Five miles west and 6 miles south of St. John.

219257. No. P 13. Two miles west of Pratt.

219258. No. P 14. Two and one-fourth miles west of Pratt.

219259. No. P 18. Two miles west of Haviland.

219260. No. P 28. Three miles southeast of Kinsley.

219261. No. P 38. Four miles southeast of Belpre.

219262. No. P 46. Six miles south of Macksville.

219263. No. P 48. Seven miles south of Macksville.

219264. No. P 51. Seven and three-fourths miles south of Macksville.

219265. No. P 55. Eight miles east of Macksville.

219266. No. P 56. Six miles southeast of Stafford.

219267. No. P 61. Five miles southeast of Stafford.

219268. No. P 63. Four miles southeast of Turon.

219269. No. P 66. Four miles south and 13 miles east of Turon.

219270. No. P 68. Two miles south of Pretty Prairie.

219271. No. P 72. One-half mile southwest of Kingman.

219272. No. P 73. Two miles southwest of Kingman.

219273. No. P 76. Four miles southwest of Kingman.

219274. No. P 77. Six miles southwest of Kingman.

219275. No. P 79. One mile south of Rago.

219276. No. P 82. Six and one-half miles south of Attica.

219277. No. P 88. Three miles northeast of Kiowa.

**219278 to 219291. Oklahoma.**

219278. No. P 90. Two miles east of Capron.

219279. No. P 91. Two miles northeast of Alva.

219280. No. P 96. Fourteen miles east of Alva.

## 218263 to 219557—Continued

## 219023 to 219352—Continued

## 219278 to 219291—Continued

- 219281. No. P 99. Fourteen miles east of Alva.
- 219282. No. P 102. Three miles southeast of Cherokee.
- 219283. No. P 108. Eight miles north of dam, Salt Plains Reservoir.
- 219284. No. P 109. Twelve miles northeast of dam, Salt Plains Reservoir.
- 219285. No. P 112. Four miles south of Hawley.
- 219286. No. P 114. Ten miles east of Hawley.
- 219287. No. P 116. Eighteen miles east of Hawley.
- 219288. No. P 119. Three miles south of Lamont.
- 219289. No. P 121. Five miles southeast of Lamont.
- 219290. No. P 125. Four miles northwest of Ponca City.
- 219291. No. P 126. Four miles northwest of Ponca City.

## 219292 to 219294. Kansas.

- 219292. No. P 134. Two miles southwest of Wichita.
- 219293. No. P 136. One-half mile northeast of Clearwater.
- 219294. No. P 139. One-fourth mile north of Conway Springs.

## 219295. No. P 204. Five miles southeast of Lacey, Okla.

## 219296 to 219304. Kansas.

- 219296. No. P 143. Twenty miles south of Conway Springs.
- 219297. No. P 147. Three miles north of Anthony.
- 219298. No. P 149. Six miles north and 6 miles west of Anthony.
- 219299. No. P 153. Two miles west of Attica.
- 219300. No. P 159. Three miles west of Sharon.
- 219301. No. P 160. Three miles east and 1½ miles south of Medicine Lodge.
- 219302. No. P 163. Ten miles west of Medicine Lodge.
- 219303. No. P 166. Three miles west of Lake City.
- 219304. No. P 170. Fifteen miles east of Coldwater.

## 219305 to 219339. Oklahoma.

- 219305. No. P 174. Seven miles northwest of Alva.
- 219306. No. P 176. Ten miles south of Alva.
- 219307. No. P 180. Sixteen miles south of Alva.
- 219308. No. P 185. Seven miles south of Carmen.
- 219309. No. P 190. Enid.
- 219310. No. P 195. Five miles north of Drummond.
- 219311. No. P 201. Nineteen miles southwest of Drummond.
- 219312. No. P 205. Five miles southeast of Lacey.
- 219313. No. P 206. Sixteen miles southeast of Lacey.
- 219314. No. P 209. Fourteen miles southeast of Watonga.
- 219315. No. P 211. South of Canadian River.
- 219316. No. P 213. Three miles south of Union.

**218263 to 219557—Continued****219023 to 219352—Continued****219305 to 219339—Continued**

- 219317. No. P 214. Eight miles southwest of Wheatland.
- 219318. No. P 217. Ten miles southwest of Norman.
- 219319. No. P 219. Six miles southwest of Norman.
- 219320. No. P 222. Six miles southwest of Norman.
- 219321. No. P 223. Twelve miles east of Norman.
- 219322. No. P 224. Twelve miles southeast of Pink.
- 219323. No. P 225. One mile northwest of Tecumseh.
- 219324. No. P 228. Fifteen miles northwest of Tecumseh.
- 219325. No. P 231. Ten and one-half miles north of Chandler.
- 219326. No. P 233. Fifteen miles northeast of Chandler.
- 219327. No. P 235. Twenty-two miles northeast of Chandler.
- 219328. No. P 236. Thirty-one miles northeast of Chandler.
- 219329. No. P 240. Twelve miles northwest of Drumright.
- 219330. No. P 243. Seventeen miles northwest of Drumright.
- 219331. No. P 245. Four miles west of Yale.
- 219332. No. P 249. Three miles east of Perry.
- 219333. No. P 252. Ten miles southwest of Chickasha.
- 219334. No. P 253. Ten miles southwest of Chickasha.
- 219335. No. P 255. Twelve miles southwest of Chickasha.
- 219336. No. P 256. Twelve miles southwest of Chickasha.
- 219337. No. P 257. One mile east of Cement.
- 219338. No. P 264. Two miles east of Medicine Park.
- 219339. No. P 265. Lake Lawtonka.

219340. No. P 267. Wild Life Refuge, Wichita, Kans.

**219341 to 219344. Oklahoma.**

- 219341. No. P 272. Eight miles west of Cache.
- 219342. No. P 273. Eight miles west of Cache.
- 219343. No. P 277. One mile north of Manitou.
- 219344. No. P 287. Four miles south of Frederick.

**219345 to 219348. Texas.**

- 219345. No. P 290. One mile north of Aubrey.
- 219346. No. P 292. Two miles north of Collinsville.
- 219347. No. P 297. Two miles north of Whitesboro.
- 219348. No. P 298. Two miles north of Whitesboro.

**219349 to 219352. Oklahoma.**

- 219349. No. P 300. Ten miles southwest of Wilson.
- 219350. No. P 307. Eleven miles west of Comanche.
- 219351. No. P 312. Near Lake Comanche.
- 219352. No. P 313. Near Lake Comanche.



## 218263 to 219557—Continued

- 219353 and 219354. *SPOROBOLUS HETEROLEPIS* A. Gray. Poaceae.  
Prairie dropseed.
219353. No. 719. One mile north of Stringtown, Okla.
219354. No. 863. Two miles east of Boswell, Okla.
219355. *TRIDENS FLAVUS* (L.) Hitchc. Poaceae. Purpleton.  
No. 1091. Groesbeck, Tex.
- 219356 to 219359. *TRIDENS STRICTUS* (Nutt.) Nash.
219356. No. 215. Three miles west of Girard, Kans.
219357. No. 218. Three miles west and 1 mile north of Girard, Kans.
219358. No. 617. Two miles southeast of Ada, Okla.
219359. No. 684. Two miles southeast of Lehigh, Okla.
- 219360 to 219392. *TRIPSACUM DACTYLOIDES* L. Poaceae. Eastern gamagrass.  
Kansas
219360. No. 178. Harry Dragoo upland meadow, Allen County.
219361. No. 194. Five miles west of Burlington.
219362. No. 220. One mile south and 2 miles west of Farlington.
219363. No. 1056. Eight miles east of Junction City.
219364. No. 1057. Fifteen miles east of Junction City.
219365. No. 1058. Twelve miles east of Junction City.
219366. No. 1059. Eleven miles east of Junction City.
219367. No. 1060. Eighteen miles west and 7 miles north of Hutchinson.
219368. No. 1061. Nine miles east of Junction City.
219369. No. 1062. Two miles northeast of Council Grove.
219370. No. 1063. One-half mile west of Cedar Point.
219371. No. 1064. North of Flush.
219372. No. 1065. Six miles west of Westmoreland.
219373. No. 1066. Six miles west of Westmoreland.
219374. No. 1067. Five miles north of Flush.
219375. No. 1068. Six miles west of Westmoreland.
219376. No. 1069. Near Manhattan.
219377. No. 1070. Eight miles west of Westmoreland.
219378. No. 1071. Five miles northeast of Council Grove.
219379. No. 1072. Pottawatomie County.
219380. No. 1073. Eight miles west of Westmoreland.
219381. No. 1074. Seventeen and one-half miles east of Junction City.
219382. No. 1075. Three miles south of viaduct, Manhattan.
219383. No. 1076. Ten miles northeast of Council Grove.
219384. No. 1077. Ten miles west of Junction City.
219385. No. 1078. North of Flush.
219386. No. 1079. North of Flush.
219387. No. 1080. One mile west of Chapman.
219388. No. 1081. Three miles east and 1 mile north of Sylvia.



## 218263 to 219557—Continued

## 219330 to 219392—Continued

219389. No. 1082. Seven miles east of Chapman.

219390. No. 1083. Agronomy Farm, Manhattan.

219391. No. 1084. Twenty-two miles west and 7 miles north of Hutchinson.

219392. No. 1087. Ten miles northeast of Hutchinson.

219393 and 219394. *UNIOLA LATIFOLIA* Michx. Poaceae.

Broadleaf uniola.

219393. No. 230. Southwest of Pittsburg, Kans.

219394. No. 793. Three miles east of Ardmore, Okla.

219395 to 219403. *AMORPHA CANESCENS* Pursh. Fabaceae. Leadplant.

219395 to 219401. Kansas.

219395. No. 42. Southwest of Turon.

219396. No. 43. Southwest of Turon.

219397. No. 94. Franklin County.

219398. No. 97. Franklin County.

219399. No. 105. One mile west and 1 mile south of Garnett.

219400. No. 209. Bourbon County.

219401. No. 299. Southeast of Teeterville.

219402 and 219403. Oklahoma.

219402. No. 335. Along Oklahoma No. 96, north of U.S. No. 60.

219403. No. 373. Two miles west of Fairfax.

219404. *ASTRAGALUS* sp. Fabaceae.

No. 1090. Groesbeck, Tex.

219405. *CASSIA* sp. Caesalpiniaceae.

No. 319. South of Chautauqua, Kans.

219406 to 219435. *DESMANTHUS ILLINOENSIS* (Michx.) MacM. Mimosaceae.

219406. No. 61. East of Inman, Kans.

219407 and 219408. Peoria cemetery, Okla.

219407. No. 77.

219408. No. 78.

219409 to 219428. Kansas.

219409. No. 95. Franklin County.

219410. No. 106. One mile west and 5 miles south of Garnett.

219411. No. 124. Four miles west of Scipio.

219412. No. 137. One mile north of Kincaid.

219413. No. 186. Two and one-half miles southeast of Burlington.

219414. No. 189. Two and one-half miles southeast of Burlington.

219415. No. 195. Five miles west of Burlington.

219416. No. 196. Paxico.

219417. No. 203. Three miles south and 4½ miles west of Fort Scott.

219418. No. 207. Eight miles southwest of Fort Scott.

## 218263 to 219557—Continued

## 219406 to 219435—Continued

## 219409 to 219428—Continued

- 219419. No. 212. Two miles south of Hepler.
- 219420. No. 219. Three miles west and 2 miles north of Girard.
- 219421. No. 221. One mile south and 2 miles west of Farlington.
- 219422. No. 252. Four miles west of Treece.
- 219423. No. 270. Two miles north of Parsons.
- 219424. No. 275. Ordnance plant, Labette County.
- 219425. No. 298. Southeast of Teeterville.
- 219426. No. 303. Ten miles south of Alma.
- 219427. No. 311. North edge of Lyon County, southeast of Clark.
- 219428. No. 318. South of Chautauqua.

## 219429 to 219434. Oklahoma.

- 219429. No. 365. Two miles west of Homing.
- 219430. No. 375. Two miles west of Fairfax.
- 219431. No. 403. Five miles east of Oklahoma No. 40 on Oklahoma No. 15, southeast of Ponca City.
- 219432. No. 407. Eight miles east of Oklahoma No. 40 on Oklahoma No. 15, southeast of Ponca City.
- 219433. No. 645. Two miles east of Centrahoma.
- 219434. No. 868. Two miles east of Boswell.
- 219435. No. 892. One mile north of Forresteron, Tex.

219436 to 219440. *DESMODIUM ILLINOENSE* A. Gray. Fabaceae.  
Illinois tickclover.

## 219436. No. 71. Near Park, Kans.

## 219437 to 219440. Oklahoma.

- 219437. No. 336. Oklahoma No. 96, north of U.S. No. 60.
- 219438. No. 427. Four miles west of Cushing.
- 219439. No. 408. Eight miles east of Oklahoma No. 40 on Oklahoma No. 15, southeast of Ponca City.
- 219440. No. 476. Sixteen miles southeast of Bristow.
- 219441. *DESMODIUM* sp.  
No. 1092. State Park, Meridian, Tex.

219442 to 219467. *LESPEDEZA CAPITATA* Michx. Fabaceae.  
Roundhead bushclover.

## 219442 to 219456. Kansas.

## 219442 to 219445. Southwest of Turon.

219442. No. 44. 219444. No. 46.

219443. No. 45. 219445. No. 47.

219446. No. 72. Near Park.

219447. No. 75. Peoria.

219448. No. 79. Two and one-half miles west of Osowatomie.

219449. No. 107. One mile west and 5 miles south of Garnett.

## 218263 to 219557—Continued

## 219442 to 219467—Continued

## 219442 to 219456—Continued

219450. No. 190. Three miles southeast of Burlington.

219451. No. 199. Airport, Fort Scott.

219452. No. 222. Three miles southwest of Farlington.

219453. No. 274. Ordnance plant, Labette County.

219454. No. 282. Labette County.

219455. No. 283. Labette County.

219456. No. 295. Wilson County.

## 219457 and 219458. Oklahoma.

219457. No. 333. U.S. No. 60.

219458. No. 374. Two miles west of Fairfax.

219459. No. 315. South of Chautauqua, Kans.

## 219460 to 219466. Oklahoma.

219460. No. 398. Twelve miles south of Ponca City.

219461. No. 410. Southeast of Ponca City.

219462. No. 428. Four miles west of Cushing.

219463. No. 438. Eight miles north of Stillwater.

219464. No. 458. Six miles east of Agra.

219465. No. 474. Sixteen miles southeast of Bristow.

219466. No. 558. Five miles west of Purcell.

219467. No. 1042. Three miles north of Agra, Kans.

219468 and 219469. *LESPEDEZA VIOLACEA* (L.) Pers.

219468. No. 225. One mile south and 2 miles west of Farlington, Kans.

219469. No. 314. South of Chautauqua, Kans.

219470 to 219490. *LESPEDEZA VIRGINICA* (L.) Britt. Slender bushclover.

## 219470 to 219476. Kansas.

219470. No. 80. Two and one-half miles west of Osawatomie.

219471. No. 200. Edge of Fort Scott.

219472. No. 210. Bourbon County.

219473. No. 223. One mile south and 2 miles west of Farlington.

219474. No. 229. Northwestern Farlington.

219475. No. 281. Labette County.

219476. No. 371. South of Chautauqua.

## 219477 to 219486. Oklahoma.

219477. No. 328. Along Oklahoma No. 99, north of Herd.

219478. No. 356. West of Skiatook.

219479. No. 414. Thirteen miles east of Oklahoma No. 40.

219480. No. 427. Four miles west of Cushing.

219481. No. 459. Six miles east of Agra.

219482. No. 469. Ten miles northeast of Stroud.

219483. No. 528. Ten miles south of Tecumseh.

**218263 to 219557—Continued****219470 to 219490—Continued****219477 to 219486—Continued**

219484. No. 685. Two miles southeast of Lehigh.

219485. No. 687. Eight miles southeast of Citateo.

219486. No. 777. Three miles east of Ardmore.

219487. No. 908. Four miles north of Selfs, Tex.

219488. No. 1029A. One and one-half miles northeast of Fitzhugh, Okla.

219489. No. 1055. Roy Clegg, Columbus, Kans.

219490. No. 1088. Groesbeck, Tex.

**219491 to 219494. Kansas.**

219491. *LESPEDEZA* sp.

No. 224. One mile south and 2 miles west of Farlington.

219492. *LESPEDEZA* sp.

No. 296. Wilson County.

219493. *LESPEDEZA* sp.

No. 297. Wilson County.

219494. *LESPEDEZA* sp.

No. 316. South of Chautauqua.

**219495 to 219509. Oklahoma.**

219495. *LESPEDEZA* sp.

No. 327. Along Oklahoma No. 99, north of Herd.

219496. *LESPEDEZA* sp.

No. 334. Along Oklahoma No. 96, north of U.S. No. 60.

**219497 to 219499. West of Skiatook.**

219497. *LESPEDEZA* sp.

No. 355.

219498. *LESPEDEZA* sp.

No. 357.

219499. *LESPEDEZA* sp.

No. 360.

219500. *LESPEDEZA* sp.

No. 376. One mile west of Fairfax.

219501. *LESPEDEZA* sp.

No. 452. Seven miles east of Perkins.

219502. *LESPEDEZA* sp.

No. 475. Sixteen miles south of Bristow.

219503. *LESPEDEZA* sp.

No. 478. Ten miles northwest of Okmulgee.

**219504 to 219506. Near Tribbey.**

219504. *LESPEDEZA* sp.

No. 549.



## 218263 to 219557—Continued

## 219495 to 219509—Continued

## 219504 to 219506—Continued

219505. *LESPEDEZA* sp.

No. 550.

219506. *LESPEDEZA* sp.

No. 551.

219507. *LESPEDEZA* sp.

No. 560. Five miles west of Purcell.

219508. *LESPEDEZA* sp.

No. 685. Two miles southeast of Lehigh.

219509. *LESPEDEZA* sp.

No. 776. Three miles east of Ardmore.

## 219510 to 219513. Texas.

219510. *LESPEDEZA* sp.

No. 884. Five miles southwest of Kaufman.

219511. *LESPEDEZA* sp.

No. 900. Five miles north of Arlington.

219512. *LESPEDEZA* sp.

No. 907. Four miles north of Selfs.

219513. *LESPEDEZA* sp.

No. 938. Four miles west of Whitesboro.

219514 to 219534. *PETALOSTEMUM CANDIDUM* (Willd.) Michx. Fabaceae.

## 219514 to 219528. Kansas.

219514. No. 68. Near Park.

219515. No. 76. Peoria cemetery.

219516. No. 81. Two and one-half miles west of Osawatomie.

219517. No. 96. Franklin County.

219518. No. 103. Eleven miles west and 5 miles south of Garnett.

219519. No. 126. Four miles west of Scipio.

219520. One mile east and 3½ miles south of Burlington.

219521. Edge of Fort Scott.

219522. Eight miles southeast of Fort Scott.

219523. One mile south and 2 miles west of Farlington.

219524. Northwest of Farlington.

219525. Ordnance plant, Labette County.

219526. Southwest of Teeterville.

219527. North of Cottonwood Falls.

219528. Southeast of Chalk.

## 219529 to 219534. Oklahoma.

219529. No. 326. Along Oklahoma No. 99, north of Herd.

219530. No. 388. Along Highway No. 96, north of U.S. No. 60.

219531. No. 372. Two miles west of Fairfax.

## 218263 to 219557—Continued

## 219514 to 219534—Continued

## 219529 to 219534—Continued

219532. No. 409. Eight miles east of Oklahoma No. 40 on Oklahoma No. 15, southeast of Ponca City.

219533. No. 411. Eight miles east of Oklahoma No. 40 on Oklahoma No. 15, southeast of Ponca City.

219534. No. 430. Four miles west of Cushing.

## 219535 to 219539. PETALOSTEMUM MULTIFLORUM Nutt. Fabaceae.

219535. No. 305. Ten miles south of Alma, Kans.

219536 and 219537. Oklahoma.

219536. No. 405. Southeast of Ponca City.

219537. No. 418. One mile south of Hallett.

219538. No. 894. One mile north of Forreston, Tex.

219539. No. 7. Seven miles west of Stafford, Kans.

## 219540 to 219553. PETALOSTEMUM PURPUREUM (Vent.) Rydb.

219540 to 219547. Kansas.

219540. No. 69. Near Park.

219541. No. 70. Near Park.

219542. No. 104. One mile west and 5 miles south of Garnett.

219543. No. 191. Two and one-half miles southeast of Burlington.

219544. No. 202. Three miles south and 4½ miles west of Fort Scott.

219545. No. 227. One mile south and 2 miles west of Farlington.

219546. No. 301. Southeast of Teeterville.

219547. No. 304. Ten miles south of Alma.

## 219548 to 219553. Oklahoma.

219548. No. 337. Along Oklahoma No. 96, north of U.S. No. 60.

219549. No. 367. Two miles west of Homing.

219550. No. 404. Five miles east of Oklahoma No. 40 on Oklahoma No. 15, southeast of Ponca City.

219551. No. 413. Thirteen miles east on Oklahoma No. 15 from Oklahoma No. 40.

219552. No. 518. Five miles southeast of Shawnee.

219553. No. 567. Eight miles south of Maysville.

## 219554 to 219557. Southwest of Turon, Kans.

219554. PSORALEA sp. Fabaceae.

No. 38.

219555. PSORALEA sp.

No. 39.

219556. PSORALEA sp.

No. 40.

219557. PSORALEA sp.

No. 41.

**219558 to 219562. PRUNUS PERSICA (L.) Batsch. Amygdalaceae.**  
**Peach.**

From the Union of South Africa. Budsticks presented by the Western Province Fruit Research Station, Stellenbosch, Transvaal. Received June 17, 1954.

219558. *Culemborg*.

219561. *Tokani*.

219559. *Keimoes*.

219562. *Van Riebeeck*.

219560. *Maluti*.

**219563 to 219635.**

From Pakistan. Seeds collected by H. S. Gentry and E. E. Smith, Agricultural Explorers, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 18, 1954.

219563. *ALOPECURUS* sp. Poaceae.

No. 14024. Rah, 25 miles northwest of Rawalpindi, Punjab. Apr. 15, 1954. Altitude 2,000 feet. Annual.

219564. *AMARANTHUS* sp. Amaranthaceae.

No. 13984. *Chulai sag*. Market, Rawalpindi. Apr. 10, 1954. Seeds used as cereal.

219565 and 219566. *AMMI COPTICUM* L. Apiaceae.

219565. No. 13991. *Jemen*. Market, Rawalpindi. Apr. 11, 1954. Seeds used in flavoring food.

219566. No. 14084. *Ajuine*. Market, Parichimar, Karrum Valley. Apr. 22, 1954. Seeds used medicinally.

219567. *ANDROPOGON ANNULATUS* Forsk. Poaceae.

No. 14009. Near Murree in mountains, Punjab. Apr. 13, 1954. Altitude 6,000 feet. Common perennial, forming sod.

219568. *APLUDA* sp. Poaceae.

No. 14005. Near Muree in mountains, Punjab. Apr. 13, 1954. Perennial, 40 inches tall, cut for hay.

219569 and 219570. *ARISTIDA CYANANTHA* Steud. Poaceae.

219569. No. 14013. Between Murree and Kohala. Apr. 13, 1954. Altitude 3,000 feet. Leafy bunchgrass, xerophytic.

219570. No. 14178. Twenty five miles north of Saidu, Swat. Apr. 28, 1954. Altitude 3,700 feet. Perennial.

219571. *ASTRAGALUS* sp. Fabaceae.

No. 14129. Thirty-six miles south of Bannu along road to D.I. Khan. Apr. 23, 1954. Annual on sand dunes.

219572. *ASTRAGALUS SUBUMBELLATUS* Klotzsch.

No. 14130. Thirty-six miles south of Bannu along road to D. I. Khan. Apr. 23, 1954. Annual on sand dunes.

219573. *ASTRAGALUS* sp.

No. 14184. Fifteen miles northeast of Saidu, Swat. Apr. 29, 1954. Altitude 3,000 feet. Perennial with large, leafy rosette.

219574. *AVENA FATUA* L. Poaceae.

Wild oats.

No. 14160. Six miles east of Peshawar. Apr. 20, 1954.

219575. *BONGARDIA* sp. Berberidaceae.

No. 14035. Seventeen miles northwest of Rawalpindi, Punjab. Apr. 15, 1954. Altitude 2,000 feet.

## 219563 to 219635—Continued

219576. *BRASSICA* sp. Brassicaceae.

No. 13990. *Jama*. Market, Rawalpindi. Apr. 11, 1954. Used as oilseed.

219577. *BROMUS JAPONICUS* Thunb. Poaceae.

No. 14220. Near Dargar, Swat. May 1, 1954. Altitude 3,000 feet. Annual.

219578. *BROMUS* sp.

No. 14067. Eight miles south of Peshawar. Apr. 19, 1954. Early spring annual.

219579. *CHRYSOPOGON MONTANUS* Trin. Poaceae.

No. 14056. Agricultural Research Station, Peshawar. August, 1953. Perennial.

219580. *CHRYSOPOGON* sp.

No. 14169. Forty-seven miles south of Bannu on road to Tank. Apr. 25, 1954.

219581. *CYMBOPOGON CITRATUS* (DC.) Stapf. Poaceae. **Lemon grass.**

No. 14008. Near Murree in mountains, Punjab. Apr. 13, 1954. Altitude 6,000 feet. Tall perennial.

219582. *CYMBOPOGON MARTINII* (Roxb.) Stapf.

No. 14065. Agricultural Research Station, Peshawar. April 1954. Perennial.

219583. *CYMBOPOGON SCHOENANTHUS* (L.) Spreng.

No. 14128. Thirty-six miles south of Bannu along road to D. I. Khan. Apr. 23, 1954. Xerophytic perennial forming clumps on sand dunes.

219584. *ELEUSINE FLAGELLIFERA* Nees. Poaceae.

No. 14104. Thirty miles east of Bannu along road to Kohat. Apr. 23, 1954. Perennial with runners, forming low, sparse cover in sandy arroyo with saline soil.

219585. *ELEUSINE FLAGELLIFERA* Nees.

No. 14167. Forty-seven miles south of Bannu on road to Tank. Apr. 25, 1954.

219586. *ENNEAPOGON* sp. Poaceae.

No. 14068. Six miles north of Kohat. Apr. 21, 1954. Small, tufted perennial.

219587. *ENNEAPOGON* sp.

No. 14166. Forty-seven miles south of Bannu on road to Tank. Apr. 25, 1954.

219588. *ERAGROSTIS* sp. Poaceae.

No. 14077. Four miles southwest of Hungu. Apr. 19, 1954. Thin-leaved, xerophytic perennial.

219589. *ERAGROSTIS* sp.

No. 14183. Fifteen miles northeast of Saidu, Swat. Apr. 29, 1954. Perennial with caespitose base.

219590. *ERODIUM* sp. Geraniaceae.

No. 14163. Forty-seven miles south of Bannu on road to Tank. Apr. 25, 1954. Annual.



## 219563 to 219635—Continued

219591. *ERODIUM* sp.

No. 14164. Forty-seven miles south of Bannu on road to Tank. Apr. 25, 1954. Annual.

219592. *HEMARTHIA* sp. Poaceae.

No. 14057. Agricultural Research Station, Peshawar. August 1953.

219593. *HIBISCUS CANNABINUS* L. Malvaceae.

Kenaf.

No. 14109. Market, Bannu. Apr. 23, 1954.

219594. *LOLIUM TEMULENTUM* L. Poaceae.

Darnel.

No. 14206. Kanjoo, Saidu, Swat. Apr. 30, 1954.

219595. *MEDICAGO HISPIDA* Gaertn. Fabaceae.

Burclover.

No. 14134. Pezu Hills, north of D. I. Khan. Apr. 23, 1954. Prostrate spring annual.

219596. *MEDICAGO ARABICA* (L.) All.

Spotted burclover.

No. 14182. Fifteen miles northeast of Saidu, Swat. Apr. 29, 1954. Altitude 3,000 feet. Prostrate annual.

219597. *MEDICAGO HISPIDA* Gaertn.

Burclover.

No. 14061. Agricultural Research Station, Peshawar. Apr. 20, 1954.

219598. *MEDICAGO LUPULINA* L.

Black medic.

No. 14062. Agricultural Research Station, Peshawar. Apr. 20, 1954.

219599. *MEDICAGO ORBICULARIS* (L.) All.

Button clover.

No. 14214. Near Barikot, Swat. Decumbent or prostrate annual. Spontaneous in thin rocky soil.

219600. *MELILOTUS INDICA* (L.) All. Fabaceae.

Sweetclover.

No. 14232. Near Shekhupen, Punjab. April 1954. Common in cultivated fields.

219601. *MUHLENBERGIA* sp. Poaceae.

No. 14171. Saidu, Swat. Apr. 23, 1954. Altitude 3,000 feet.

219602. *ONOBRYCHIS* sp. Fabaceae.

No. 14132. Pezu Hilla, north of D. I. Khan. Apr. 23, 1954. Annual herb.

219603. *ORYZOPSIS MUNROI* Stapf. Poaceae.

No. 14015. Near Kohala. Apr. 16, 1954. Altitude 2,000 feet. Fine-leaved perennial.

219604. *ORYZOPSIS* sp.

No. 14174. Saidu, Swat. Apr. 28, 1954. Altitude 3,000 feet. Slender, fine-leaved perennial.

219605. *ORYZOPSIS* sp.

No. 14208. West side of Swat River, between Saidu and Madyan. Apr. 30, 1954. Altitude 3,500 feet.

219606. *ECHINOCHLOA CRUSGALLI* (L.) Beauv. Poaceae.

No. 14110. Market, Bannu. Apr. 23, 1954.

219607. *PANICUM ANTIDOTALE* Retz. Poaceae.

No. 14136. Pezu Hills, north of D. I. Khan. Apr. 23, 1954. Leafy perennial.

## 219563 to 219635—Continued

219608. *ECHINOCHLOA CRUSGALLI* var. *FRUMENTACEA* (Roxb.) W. F. Wight.  
Poaceae.

No. 14159. Market, D. I. Khan. Apr. 24, 1954. Used as bird seed and as human food.

219609. *PANICUM ANTIDOTALE* Retz. Poaceae.

No. 14219. Near Dargar, Swat. May 1, 1954. Large perennial growing in clumps 6 feet high.

219610. *PENNISSETUM ORIENTALE* (L.) Rich. Poaceae.

No. 14054. Agricultural Research Station, Peshawar. August 1953. Perennial.

219611. *PHALARIS MINOR* Retz. Poaceae.

No. 14025. Rah, 25 miles northwest of Rawalpindi, Punjab. Apr. 15, 1954. Annual.

219612. *PHALARIS* sp.

No. 14173. Saidu, Swat. Apr. 28, 1954. Altitude 3,000 feet. Xerophytic annual.

219613. *PHASEOLUS AUREUS* Roxb. Fabaceae.

Mung bean.

No. 14154. Market, Dera Ismail Khan. Apr. 24, 1954.

219614. *PINUS GRIFFITHII* McClelland. Pinaceae.

Pine.

No. 14188. Near Shangla, Swat. Apr. 29, 1954. Altitude 6,000 feet. Straight white pines 80-100 feet tall.

219615. *PINUS ROXBURGHII* Sargent.

No. 14226. Near Karaker Pass between Barikot and Dagar, Swat. May 1, 1954. Altitude 4,000 feet.

219616. *SAGERETIA BRANDRETHIANA* Aitch. Rhamnaceae.

No. 14018. Seventeen miles northwest of Rawalpindi, Punjab. Apr. 15, 1954. Altitude 2,000 feet. Spur-branched shrub, browsed.

219617. *SCHISMUS ARABICUS* Nees. Poaceae.

No. 14065. Eight miles south of Peshawar. Apr. 21, 1954. Short-lived spring annual.

219618 and 219619. *SETARIA ITALICA* (L.) Beauv. Poaceae. Foxtail millet.

219618. No. 14039. Kungani. Market, Peshawar. Apr. 18, 1954.

219619. No. 14197. Market, Mingora, Swat. Apr. 30, 1954.

219620. *SPOROBOLUS* sp. Poaceae.

No. 14058. Agricultural Research Station, Peshawar. 1953.

219621. *SPOROBOLUS ARABICUS* Boiss.

No. 14105. Thirty miles east of Bannu along road to Kohat. Apr. 23, 1954.

219622. *SPOROBOLUS* sp.

No. 14106. Thirty miles east of Bannu along road to Kohat. Apr. 23, 1954. Small tufted perennial.

219623. *SPOROBOLUS* sp.

No. 14142. Ten miles west of Dera Ismail Khan. Apr. 24, 1954. Perennial with palatable leaves.

219624. *TARAXACUM* sp. Asteraceae.

No. 14011. Near Murree in mountains, Punjab. Apr. 13, 1954. Scapose with leafy rosette; juice milky.

**219563 to 219635—Continued****219625. TARAXACUM sp.**

No. 14012. Near Murree in mountains, Punjab. Apr. 13, 1954. Altitude 6,000 feet. Small herb.

**219626. TARAXACUM sp.**

No. 14014. Near Kohala. Apr. 16, 1954. Altitude 2,000 feet.

**219627. TETRAPOGON VILLOSUS (Pers.) Desf. Poaceae.**

No. 14168. Forty-seven miles south of Bannu on road to Tank. Apr. 25, 1954. From arid region.

**219628. THEMEDA ANATHERA (Nees) Hack. Poaceae.**

No. 14177. Twenty-five miles north of Saidu, Swat. Apr. 28, 1954. Altitude 3,700 feet. Perennial.

**219629. TRIGONELLA CORNICULATA L. Fabaceae.**

No. 13907. *Meti*. Punjab Agricultural College and Research Institute, Lyallpur, Punjab. Apr. 3, 1954. Locally grown as green leaf-vegetable.

**219630 to 219633. VICIA spp. Fabaceae.****219630. VICIA FABA L.****Broadbean.**

No. 14124. Market, Bannu. Apr. 23, 1954. Used as table bean.

**219631. VICIA sp.**

No. 14192. Near Karora, Swat. Apr. 29, 1954. Altitude 3,100 feet. Winter annual.

**219632. VICIA sp.**

No. 14205. Kanjoo, Saidu, Swat. Apr. 30, 1954. Altitude 3,000 feet.

**219633. VICIA sp.**

No. 14230. Shekhupura, Punjab. April 1954.

**219634. WITHANIA COAGULANS Dun. Solanaceae.**

No. 14123. *Zapianga*. Market, Bannu. Apr. 23, 1954. Fruits used medicinally.

**219635. (Undetermined.)**

No. 13987. Market, Rawalpindi. Apr. 10, 1954. Seeds, very gummy when chewed, used medicinally.

**219636 and 219637. PHALARIS TUBEROSA L. Poaceae.****Large canary grass.**

From Iraq. Seeds collected by H. W. Springfield, American Embassy, Baghdad. Received June 18, 1954.

219636. S-58. Rough hillside near Tainal. Oct. 18, 1953.

219637. S-59. West of Sulaimaniya. Oct. 21, 1953.

**219638 to 219645.**

From India. Seeds presented by the Indian Agricultural Research Institute, New Delhi. Received June 18, 1954.

**219638. ANDROPOGON ANNULATUS Forsk. Poaceae.****219639 and 219640. CAJANUS CAJAN (L.) Druce. Fabaceae. Pigeonpea.**

219639. Prostrate.

219640. I. C. 2333.



**219638 to 219645—Continued**219641. *CHLORIS INCOMPLETA* Roth. Poaceae.

I. C. 2294.

219642 to 219645. *LINUM USITATISSIMUM* L. Linaceae.

Flax.

219642. R. R. 5.

219644. R. R. 38.

219643. R. R. 10.

219645. R. R. 45.

**219646 to 219648. *BEGONIA* spp. Begoniaceae.**

From California. Seeds presented by Mrs. J. V. MacLanahan, Los Angeles.  
Received June 18, 1954.

219646. *BEGONIA* sp.

No. 101. Hawaii.

219647. *BEGONIA* sp.

No. 129. Costa Rica.

219648. *BEGONIA* sp.

No. 149. Mixed. Philippines.

**219649 to 219651. *HELIANTHUS ANNUUS* L. Asteraceae.**

Common sunflower.

From Austria. Seeds presented by the Tobacco Breeding Station of the Austrian Tobacco Monopoly, Fürstenfeld. Received June 21, 1954.

219649. Bols 3. Eastern Styria.

219650. Bols 3a. Eastern Styria.

219651. Bols 4. Oldenburg, Germany.

**219652 to 219666.**

From Indonesia. Seeds and tubers presented by F. P. Hubert, United States Operations Mission, Djarkarta, Java. Received June 21, 1954.

219652 to 219656. *GLYCINE MAX* (L.) Merr. Fabaceae.

Soybean.

219652. Reg. No. 27.

219655. Reg. No. 452.

219653. Reg. No. 29.

219656. Reg. No. 520.

219654. Reg. No. 34.

219657 to 219666. *IPOMOEA BATATAS* (L.) Lam. Convolvulaceae.

Sweetpotato.

From the General Agricultural Research Station, Bogor, Java.

219657. *Djonka-125.*219662. *Tembakur-322.*219658. *Kawagoyei-30.*219663. *20-SBYX-K44.*219659. *Mentang-10-52.*219664. *SBYX-K66-40.*219660. *Putih Kalibaru-324.*219665. *SBYX-K182-44.*219661. *Putri Selatan-179.*219666. *SQ-27-15.***219667. *AELUROPUS MACROSTACHYUS* Hack. Poaceae.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md.  
Received June 21, 1954.

No. 14229. Airport at Zahidan. May 9, 1954. Perennial grass growing along runway.



## 219668 to 219674. GLYCINE MAX (L.) Merr. Fabaceae.

Soybean.

From Sweden. Seeds presented by Algot Holmberg & Soner, Norrköping. Received June 21, 1954.

- |                                |                                |
|--------------------------------|--------------------------------|
| 219668. 201 - 8 - 31 - 9F12.   | 219672. 201 - 14 - 18 - 40F12. |
| 219669. 201 - 14 - 10 - 2F12.  | 219673. 201 - 14 - 20F11.      |
| 219670. 201 - 14 - 11 - 6F12.  | 219674. 634 - 29 - 87 - 8F9.   |
| 219671. 201 - 14 - 18 - 34F12. |                                |

## 219675 and 219676.

From India. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 21, 1954.

## 219675. CYMBOPOGON sp. Poaceae.

No. 13950. Nilgiri Hills. March 1954. Altitude 6,500 feet. Annual rainfall 70 inches. Large, long-leaved aromatic grass abundant on rocky slopes. Used locally for thatching.

## 219676. ELAEAGNUS sp. Elaeagnaceae.

No. 14234. Nilgiri Hills. March 1954. Altitude 6,000 feet. Ornamental shrub with edible fruits.

## 219677 to 219689. CITRUS spp. Rutaceae.

From California. Budsticks presented by the Citrus Experiment Station, Riverside. Received June 22, 1954.

## 219677 to 219687. CITRUS LIMON (L.) Burm. f.

Lemon.

- |   |                                      |
|---|--------------------------------------|
| 219677. <i>Corona Foothills Black</i><br>I-5. | 219682. <i>Keene Lisbon S1E.</i>     |
| 219678. <i>C. E. S. Villafranca S1E.</i>      | 219683. <i>Ledeg Lisbon S1E.</i>     |
| 219679. <i>Cook Nucellar Eureka</i><br>S1S.   | 219684. <i>Monroe Lisbon S1E.</i>    |
| 219680. <i>Frost Eureka S1D.</i>              | 219685. <i>Price Lisbon S1E.</i>     |
| 219681. <i>Galligan Lisbon S1E.</i>           | 219686. <i>Prior Lisbon S1E.</i>     |
|   | 219687. <i>Ross 10-1 Eureka S1B.</i> |

## 219688 and 219689. CITRUS.

219688. *Bearss Lime.* Row 29. Lime-Lemon Hybrid.

219689. *Bearss Lime.* Row 28. Lime-Lemon Hybrid.

## 219690. GOSSYPIMUM. Malvaceae.

Cotton.

From Liberia. Seeds presented by J. O. Ware, Agricultural Experiment Station, Fayetteville, Ark. Received June 22, 1954.

## 219691 to 219716.

From Pakistan. Seeds collected by H. S. Gentry and E. E. Smith, Agricultural Explorers, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 22, 1954.

## 219691. CITRULLUS VULGARIS Schrad. Cucurbitaceae.

Watermelon.

No. 14150. Market, Desra Ismail Khan. Apr. 24, 1954.

## 219692. CORYLUS COLURNA L. Betulaceae.

Filbert.

No. 13979. *Pari Badam.* Market, Rawalpindi. Apr. 10, 1954.

## 219693. CUCUMIS MELO L. Cucurbitaceae.

Muskmelon.

No. 14120. Market, Bannu. Apr. 23, 1954. Large, local variety.

## 219691 to 219716—Continued

219694. *CUCURBITA PEPO* L. Cucurbitaceae. Pumpkin.  
No. 14147. Market, Desra Ismail Khan. Apr. 24, 1954. Fruit white; used for confectionary.
219695. *DIOSCOREA* sp. Dioscoreaceae.  
No. 14003. Near Murree in mountains, Punjab. Apr. 13, 1954. Altitude 6,500 feet. Dry vine with capsules on shady bank.
219696. *DOLICHOS LABLAB* L. Fabaceae. Hyacinth-bean.  
No. 14125. Market, Bannu. Apr. 23, 1954.
219697. *ERIOBOTRYA JAPONICA* (Thunb.) Lindl. Malaceae. Loquat.  
No. 14082. Alizai Agricultural Experiment Station, Kurram Valley. Apr. 22, 1954. Large-leaved variety with fruits of good flavor.
219698. *GLYCINE MAX* (L.) Merr. Fabaceae. Soybean.  
No. 14195. *Kulat*. Market, Mingora, Swat. Apr. 30, 1954. Yellow soybeans.
219699. *PHASEOLUS AUREUS* Roxb. Fabaceae. Mung bean.  
No. 14079. Market, Thal. Apr. 22, 1954.
219700. *PHASEOLUS MUNGO* L. Urd.  
No. 14041. *Kurram mash*. Market, Peshawar. Apr. 18, 1954.
- 219701 to 219704. *PHASEOLUS VULGARIS* L. Common bean.
219701. No. 13957. *Rajma*. Market, Rawalpindi. Apr. 10, 1954. Reddish variety.
219702. No. 13967. Market, Rawalpindi. Apr. 10, 1954. Dull pink variety.
219703. No. 13969. *Grang*. Market, Rawalpindi. Apr. 10, 1954. Said to be climbing.
219704. No. 14198. *Shopar*. Market, Mingora, Swat.
- 219705 and 219706. *PISUM SATIVUM* L. Fabaceae. Pea.
219705. No. 13970. *Mutta*. Market, Rawalpindi. Apr. 10, 1954. Small green table pea.
219706. No. 14121. Market, Bannu. Apr. 23, 1954. Grown for table use.
219707. *POA BULBOSA* L. Poaceae.  
No. 14090. Near Parichinar. Apr. 22, 1954. Altitude 6,000 feet. Small perennial, reported as good pasture grass.
- 219708 and 219709. *RICINUS COMMUNIS* L. Euphorbiaceae. Castorbean.
219708. No. 14016. Near Kohala. Apr. 13, 1954.
219709. No. 14215. Between Barikot and Dargar, Swat. May 1, 1954. Heavily fruiting; capsules apparently not quickly shattering.
219710. *SORGHUM VULGARE* Pers. Poaceae.  
No. 14151. Market, Desra Ismail Khan. Apr. 24, 1954. Local.
219711. *TRIGONELLA POLYCERATA* L. Fabaceae.  
No. 14185. Fifteen miles northeast of Saidu, Swat. Altitude 3,000 feet. Small decumbent annual.
219712. *TULIPA STELLATA* Hook. Liliaceae. Tulip.  
No. 14029. Twenty miles south of Abbottabad. Apr. 15, 1954. Altitude 3,000 feet.

## 219691 to 219716—Continued

219713. *VIGNA CYLINDRICA* (L.) Skeels. Fabaceae. Catjang.

No. 13992. *Mash*. Market, Rawalpindi. Apr. 11, 1954. Small white bean used as a table food.

219714. *VIGNA SINENSIS* (Torner) Savi. Cowpea.

No. 13955. *Luvia*. Market, Rawalpindi. Apr. 10, 1954. Black-eyed variety.

219715. *ZEA MAYS* L. Poaceae. Corn.

No. 14074. Market, Hungu. Apr. 21, 1954. Irrigated; summer grown.

219716. *ZIZIPHUS MAURITIANA* Lam. Rhamnaceae. Bor.

No. 14073. Market, Hungu. Apr. 21, 1954.

## 219717 to 219720.

From the Union of Burma. Seeds presented by Carl D. Snyder, Technical Co-operation Administration, Taunggyi, Southern Shan State. Received June 23, 1954.

219717. *CROTALARIA JUNCEA* L. Fabaceae. Sunn-hemp.

219718. *HIBISCUS SABDARIFFA* L. Malvaceae. Roselle.

*Chinbaung*.

219719 and 219720. *PHASEOLUS CALCARATUS* Roxb. Fabaceae. Rice bean.

219719. *Peyin* (small).

219720. *Peyin* (large).

219721 and 219722. *VACCINIUM OXYCOCCOS* L. Vacciniaceae. Cranberry.

From Sweden. Plants presented by I. Granhall, Balsgard Fruit Breeding Institute, Fjalkestad. Received June 23, 1954.

219721. *Immeln*. From a sphagnum bog about 25 km. north of Kristianstad.

219722. *Lulea*. From a sphagnum bog at Porso, about 10 km. north of Lulea.

219723. *IPOMOEA BATATAS* (L.) Lam. Convolvulaceae. Sweetpotato.

From the Union of South Africa. Tubers presented by L. M. Josephson, College of Agriculture, Potchefstroom, Transvaal. Received June 23, 1954.

From Umtali, Southern Rhodesia. Similar to the variety *Virosky*, obtained from Russia several years ago.

## 219724 to 219753.

From Pakistan. Seeds collected by H. S. Gentry and E. E. Smith, Agricultural Explorers, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 25, 1954.

219724. *ARISTIDA* sp. Poaceae.

No. 14138. Pezu Hills, north of Desra Ismail Khan. Apr. 23, 1954. Perennial, browsed by cattle or camels.

219725. *AVENA* sp. Poaceae.

No. 14059. Six miles east of Peshawar. Apr. 20, 1954.

219726. *BROMUS JAPONICUS* Thunb. Poaceae.

No. 13999. Topi Park, Rawalpindi, Punjab. Apr. 12, 1954. Altitude 1,700 feet.



## 219724 to 219753—Continued

219727 to 219730. *CICER ARIETINUM* L. Fabaceae. Chickpea.

219727. No. 13956. *Chanah*. Market, Rawalpindi. Apr. 10, 1954. White seeds, very variable in size.

219728. No. 13958. *Chanah*. Market, Rawalpindi. Apr. 10, 1954. Small, dark seeds.

219729. No. 14043. *Chinna*. Market, Peshawar. Apr. 18, 1954.

219730. No. 14131. Thirty-four miles south of Bannu along road to Desra Ismail Khan. Apr. 23, 1954. Black seeds.

219731. *CYMBOPOGON* sp. Poaceae.

No. 14139. Pezu Hills north of Desra Ismail Khan. Apr. 23, 1954. Bushy perennial growing along sandy bank.

219732. *GLYCINE MAX* (L.) Merr. Fabaceae. Soybean.

No. 14089. *Kurhe*. Market, Parichinar. Apr. 22, 1954. Altitude 6,000 feet. Locally cultivated in Kurram Valley; used cooked as cattle feed. Not eaten by man.

219733. *HORDEUM* sp. Poaceae. Barley.

No. 14027. *Jo Black*. Twenty miles south of Abbottabad. Apr. 15, 1954. Altitude 3,000 feet. Red-topped barley; strong stalks and heavy, nodding heads.

219734. *HORDEUM* sp.

No. 14028. *Jo Black*. Twenty miles south of Abbottabad. Apr. 15, 1954. Dark, drab heads; stalks strong, stooling.

219735. *HORDEUM* sp.

No. 14072. Market, Hungu. Apr. 21, 1954. Irrigated.

219736. *HORDEUM* sp.

No. 14087. Market, Parichinar, Kurram Valley. Apr. 22, 1954.

219737. *HORDEUM* sp.

No. 14148. Market, Desra Ismail Khan. Apr. 24, 1954. Irrigated.

219738. *HORDEUM* sp.

No. 14201. Kanjoo, Saidu, Swat. Apr. 30, 1954. Altitude 3,000 feet. Short headed, short stemmed. Irrigated.

219739. *MEDICAGO ASCHERSONIANA* Urban. Fabaceae.

No. 13998. Topi Park, Rawalpindi, Punjab. Apr. 12, 1954. Low spreading annual, maturing early in spring.

219740 and 219741. *SECALE CEREALE* L. Poaceae. Rye.

219740. No. 14210. Near Barikot, Swat. May 1, 1954. Spontaneous in wheat field.

219741. No. 14186. Fifteen miles northeast of Saidu, Swat. Apr. 29, 1954. Altitude 3,000 feet.

219742 to 219752. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.

219742. No. 14030. Abbottabad. Apr. 15, 1954. Altitude 4,000 feet. A nearly awnless early spring wheat; dry-farmed.

219743. No. 14053. Near Peshawar. Apr. 19, 1954. Bearded winter wheat. Irrigated.

219744. No. 14086. Market, Parichinar, Kurram Valley. Apr. 22, 1954.



## 219724 to 219753—Continued

## 219742 to 219752—Continued

219745 to 219749. Forty-four miles southwest of Kohat along road to Bannu. Apr. 23, 1957.

219745. No. 14097. Dry-farmed winter wheat with yellow heads, selected from variable field.

219746. No. 14099. Dry-farmed winter wheat with short, russet-colored heads.

219747. No. 14100. Mixed varieties of winter wheat.

219748. No. 14101. Black-awned crossed with long yellow-awned; winter wheat.

219749. No. 14103. Winter wheat with small rust-colored heads.

219750. No. 14144. Twenty miles west of Desra Ismail Khan. Apr. 24, 1954. White heads and long awns. Plants up to 3 feet in height.

219751. No. 14145. Twenty miles west of Desra Ismail Khan. Apr. 24, 1954. Russet heads, long awns. Three feet in height.

219752. No. 14224. Near Mardan. May 1, 1954. Altitude 1,500 feet. Local selection of a tall, russet-headed, non-bearded wheat. Average height 4 feet.

219753. *VICIA SATIVA* L. Fabaceae.

Common vetch.

No. 14052. Near Peshawar. Apr. 19, 1954. Semi-scandent annual trailing on wheat.

219754. *ALLIUM FISTULOSUM* L. Liliaceae.

Welsh onion.

From Japan. Seeds presented by Dr. Hsyao Iwagaki, Hirano Mura, Fukushima Prefecture. Received June 25, 1954.

Nebuka type; from a grower near Tokyo.

## 219755 to 219759.

From South Africa. Seeds presented by L. M. Josephson, College of Agriculture, Potchefstroom, Transvaal, Union of South Africa. Received June 28, 1954.

219755. *AVENA SATIVA* L. Poaceae.

Oats.

Vaalhartz settlement, Transvaal.

219756. *ELEUSINE CORACANA* (L.) Gaertn. Poaceae.

African millet.

Umtali, Southern Rhodesia. *Rapoko*. Cultivated as a staple food and for making beer.

219757. *HORDEUM* sp. Poaceae.

Barley.

Vaalhartz settlement, Transvaal.

219758. *NICOTIANA TABACUM* L. Solanaceae.

Common tobacco.

Re-seeding type.

219759. *SORGHUM* sp. Poaceae.

Umtali, Southern Rhodesia. *Ipka*.

219760 to 219765. *AVENA SATIVA* L. Poaceae.

Oats.

From Greece. Seeds presented by Institute of Plant Development, Salonika. Received June 28, 1954.

219760. *Edessa Yg-2571*.

219763. *Trikala G-49970*.

219761. *Kassandra F-10871*.

219764. *Tripolis G-46827*.

219762. *Rodope YG-2618*.

219765. *Xanthis YG-2641*.

**219766 to 219776. RICINUS COMMUNIS L. Euphorbiaceae.****Castorbean.**

From Argentina. Seeds presented by the Dirección de Cultivos Especiales, Buenos Aires. Received June 28, 1954.

- |  |                            |
|--|----------------------------|
| 219766. No. 571. <i>Dwarf Castor</i> .<br>From Bechuanaland. | 219772. No. 574. No. 72.   |
| 219767. No. 464. Local.                                      | 219773. No. 575. No. 73.   |
| 219768. No. 573. <i>Mamona 38</i> .                          | 219774. No. 576. No. 74.   |
| 219769. No. 572. <i>Mauthner</i> .                           | 219775. No. 577. No. 93.   |
| 219770. No. 460. <i>Rouge de Fez</i> .                       | 219776. No. 503. No. 4233. |
| 219771. No. 454. <i>Sanguineo Co-</i><br><i>mun.</i>         |                            |

**219777. MALUS SYLVESTRIS Mill. Malaceae.****Apple.**

From Peru. Budsticks presented by Norman M. Ward, Institute of Inter-American Affairs, Lima. Received June 29, 1954.

*San Antonio.*

**219778. LACTUCA DISSECTA Don. Cichoriaceae.**

From Pakistan. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 30, 1954.

No. 13996. Topi Park, Tawalpindi, Punjab. Apr. 12, 1954. Annual, 12 inches tall.

**219779. ASPARAGUS OFFICINALIS L. Convallariaceae.****Garden asparagus.**

From Yugoslavia. Seeds presented by the Institute for Plant Breeding and Plant Production, Department of Introduction, Zemun. Received June 30, 1954.

**219780 to 219790. GLYCINE MAX (L.) Merr. Fabaceae. Soybean.**

From Japan. Seeds presented by the Laboratory of Plant Breeding, Hyogo Agricultural College, Hyogo-Ken. Received June 30, 1954.

219780. *Asahi*-No. 6. Pure line selection from a local variety,  
 219781. *Aso*-No. 1. Pure line selection from a local variety.  
 219782. *Azeminori*. Cross between *Wase-ciran* and *Takiya*.  
 219783. *Daruma-masari*. Cross between *Rikuwu* No. 27 and *Ohwu* No. 13.  
 219784. *Katazaya*. Cross between *Shin* No. 1 and *Osaka-hadaka*.  
 219785. *Ko* No. 103. Cross between *Vohgetsu* No. 1 and *Onihadaka* No. 1.  
 219786. *Norin* No. 4. Cross between *Shirohigo* and *Rikuwu* No. 27.  
 219787. *Ohwu* No. 13. Cross between *Ko* 235 (Manchurian variety) and *Rikuwu* No. 27.  
 219788. *Rikuwu*. No. 8. Unknown.  
 219789. *Shin* No. 4. Cross between *Ko* No. 9 and *Ohwu* No. 13.  
 219790. *Tanba Kuro Dazzu*.

**219791. MALUS SYLVESTRIS Mill. Malaceae.****Apple.**

From New Zealand. Budwood presented by H. J. Cutler & Son Ltd., New Lynn, Auckland. Received June 30, 1954.

*Vails Early.*

**219792 to 219794. SACCHARUM. Poaceae. Sugarcane.**

From Argentina. Cuttings presented by the Ministerio de Agricultura, Dirección de Cultivos Especiales, Buenos Aires. Received June 30, 1954.

219792. Tuc. 1406.

219793. Tuc. 2605.

219794. Tuc. 2645.

**219795. MEDICAGO SATIVA L. Fabaceae. Alfalfa.**

From Egypt. Seeds collected by O. S. Aamodt, Agricultural Research Service, Beltsville, Md. Received July 7, 1954.

From an irrigated area on the Desert Range Project, Fouka, on north coast west of Alexandria.

**219796 to 219800.**

From Iraq. Seeds presented by H. W. Springfield, American Embassy, Baghdad. Received July 7, 1954.

219796. HORDEUM SPONTANEUM C. Koch.

No. S-62. Four km. west of Salahadin. June 13, 1954. Altitude 3,000 feet.

219797. AEGILOPS TRIUNCIALIS L. Poaceae.

No. S-63. Oak Forest Zone, Salahadin Resort Area. June 13, 1954. Altitude 3,300 feet. Mixture of species.

219798. PAPPOPHORUM sp. Poaceae.

No. S-64. Fifteen km. north of Kirkuk. June 16, 1954. Altitude 1,300 feet. Basal clump about 1 foot in diameter with culms 8-15 inches high.

219799. PAPPOPHORUM sp.

No. S-65. Ten km. east of Kirkuk. June 17, 1954. Altitude 1,500 feet. Culms 12-15 inches high.

219800. SANGUISORBA MINOR Scop. Rosaceae.

No. S-61. Erbil Nursery site. June 17, 1954. Altitude 1,500 feet. Forage production relatively good for this one plant.

**219801 to 219804.**

From Chile. Seeds presented by Erik von Baer, Sociedad Nacional de Agricultura, Huelquén, Santiago. Received July 7, 1954.

219801 to 219803. BROMUS CATHARTICUS Vahl. Poaceae. Rescue grass.

219801. No. 1

219802. No. 2

219803. No. 3. From Villarrica.

219804. BROMUS STAMINEUS Desv.

**219805 to 219807. PRUNUS PERSICA (L.) Batsch. Amygdalaceae. Peach.**

From Australia. Presented by the Department of Agriculture and Stock, Brisbane, Queensland. Received July 7, 1954.

219805. *Beauty of Booroodabin*. Strain No. 1. (Budwood.)

219806. *Beauty of Booroodabin*. Strain No. 2. (Budwood.)

219807. Unnamed dwarf variety. (Seeds.)



**219808 to 219817.**

From Portugal. Seeds presented by Miguel M. Alvaizere, Lisbon. Received July 7, 1954.

219808 and 219809. *GLYCYRRHIZA ECHINATA* L. Fabaceae.

219808. 46/430. Botanic Garden, Stuttgart, Germany.

219809. Botanic Garden, Palermo, Sicily, Italy.

219810 to 219817. *GLYCYRRHIZA GLABRA* L.

Licorice.

219810. No. 1. Botanic Garden, Lyon, France.

219811. No. 2. Botanic Garden, Dijon, France.

219812. No. 3. Botanic Garden, Berlin, Germany.

219813. No. 4. Botanic Garden, Dresden, Germany.

219814. No. 5. Botanic Garden, Udine, Italy.

219815. No. 6. Botanic Garden, Bygdoszcz, Poland.

219816. No. 7. National Agronomic Station, Sacavem, Portugal.

219817. No. 8. Botanic Garden, Basel, Switzerland.

219818. *MANGIFERA INDICA* L. Anacardiaceae.

Mango.

From the Philippines. Seeds presented by Victoriano J. Madrid, Bureau of Plant Industry, Manila. Received July 8, 1954.

*Carabao.*

219819. *SANSEVIERIA ZEYLANCIA* Willd. Liliaceae.

From Israel. Tubers presented by I. Arnon, Agricultural Research Station, Rehovot. Received July 9, 1954.

Grown at the Mikwe Israel School of Agriculture.

219820. *PENNISETUM SPICATUM* (L.) Willd. Poaceae.

Pearl millet.

From Southern Rhodesia. Seeds presented by the Makaholi Experiment Farm, Port Victoria. Received July 9, 1954.

*Bearded Munga.*

219821. *CHLORIS GAYANA* Kunth. Poaceae.

Rhodes grass.

From Brazil. Seeds presented by the Escola de Agronomia "Eliseu Maciel", Pelotas, Rio Grande do Sul. Received July 9, 1954.

**219822 to 219824.**

From Argentina. Seeds presented by Victor A. Rigoni, National Experiment Station, Manfredi. Received July 9, 1954.

219822. *ARACHIS VILLOSA* Benth. Fabaceae.

From Corrientes, San Cosme.

219823. *ARACHIS VILLOSA* Benth.

From Salta, Campo Duran.

Received as *A. duranensis*, an apparently undescribed species.

219824. *ARACHIS HYPOGAEA* L.

Common peanut.

From Jujuy. (Yala.)

Received as *A. monticola*, an apparently undescribed species.



## 219825. LYCOPERSICON. Solanaceae.

Tomato.

From Iowa. Plants at the Regional Plant Introduction Station, Ames. Numbered July 13, 1954.

*L. esculentum* (John Baer)  $\times$  *glandulosum*. (P. I. 126448.) Produced by embryo culture by Paul G. Smith, Agricultural Experiment Station, Berkeley, Calif.

## 219826 to 219858.

From Ceylon. Seeds presented by I. W. Kelton, Food and Agriculture Organization, United Nations. Received July 13, 1954.

From the Department of Agriculture, Peradeniya.

219826. AESCHYNOMENE AMERICANA L. Fabaceae.

219827. ALBIZZIA FALCATA (L.) Baker. Mimosaceae.

219828. ALBIZZIA SUMATRANA VanSteenis.

219829. ALYSICARPUS VAGINALIS (L.) D.C. Fabaceae.

Alyceclover.

219830. CAJANUS CAJAN (L.) Druce. Fabaceae.

Pigeonpea.

219831. CASSIA DIDYMOBOTRYA Fres. Caesalpinaceae.

219832. CASSIA MIMOSOIDES L.

219833. CENTROSEMA PUBESCENS Benth. Fabaceae.

219834. CROTALARIA ANAGYROIDES H.B.K. Fabaceae.

219835. CROTALARIA INCANA L.

219836. CROTALARIA JUNCEA L.

Sunn-hemp.

219837. CROTALARIA SALTIANA Andrews.

219838. CROTALARIA USARAMOENSIS Baker f.

219839. DESMODIUM CANUM (Gmel.) Schinz & Thell. Fabaceae.

219840. DESMODIUM DISTORTUM (Aubl.) Macbride.

219841. DESMODIUM GYRANS (L. f.) DC.

219842. DESMODIUM GYROIDES DC.

219843. DESMODIUM LIMENSE Hook.

219844. DERRIS MACROPHYLLA (Miq.) Benth. Fabaceae.

219845. DERRIS ROBUSTA (Roxb.) Benth.

219846. INDIGOFERA ENDECAPHYLLA Jacq. Fabaceae.

219847. INDIGOFERA TEYSMANNII Miq.

219848. PSOPHOCARPUS PALUSTRIS Desv. Fabaceae.

219849. PUERARIA PHASEOLOIDES (Roxb.) Benth. Fabaceae. Tropical kudzu.

219850. SESBANIA CINERASCENS Welw. Fabaceae.

219851. SESBANIA SPECIOSA Taub.

219852. STIZOLOBIUM ATERRIMUM Piper & Tracy. Fabaceae.

219853. STYLOSANTHES BOJERI Vog. Fabaceae.

219854. STYLOSANTHES GRACILIS H.B.K.

219855. TEPHROSIA PURPUREA (L.) Pers. Fabaceae.

219856. TEPHROSIA SINAPOU (Buc'hoz) A. Chev.

219857. TEPHROSIA VOGELII Hook. f.

219858. VIGNA MARINA (Burm.) Merr. Fabaceae.

**219859 to 219861.**

From Afghanistan. Seeds presented by A. T. Semple, American Embassy, Rome, Italy. Received July 13, 1954.

Collected by J. E. le Riche, Parian Valley south of Andjuman Pass.

219859 and 219860. *HORDEUM VULGARE* L. Poaceae.

Barley.

219861. *VICIA ERVILIA* (L.) Willd. Fabaceae.

**219862 to 219869.**

From Iraq. Seeds presented by H. W. Springfield, American Embassy, Baghdad. Received July 14, 1954.

219862. *AEGILOPS TRIUNCIALIS* L. Poaceae.

No. 68. Salahadin Resort Area. June 14, 1954.

219863. *AEGILOPS CRASSA* Boiss.

No. 72. Erbil Forest Nursery. June 15, 1954. Altitude 1,500 feet.

219864 to 219868. *AEGILOPS TRIUNCIALIS* L.

219864. No. 66. Three miles west of Salahadin. June 14, 1954.

219865. No. 67. Three miles west of Salahadin. June 14, 1954. Wide variety of intergrades.

219866. No. 69. Three miles west of Salahadin. June 14, 1954. Intergrades of species and types collected within a radius of 3 feet.

219867. No. 70. Three miles west of Salahadin. June 14, 1954. Variety of species and types collected along a 300-foot-paced transect.

219868. No. 71. Salahadin fenced area. June 14, 1954. Altitude 3,000 feet. Mixture of species growing wild together.

219869. *HORDEUM BULBOSUM* L. Poaceae.

No. 73. Salahadin fenced area. June 14, 1954. Altitude 3,000 feet. Selection of the most vigorous plants.

**219870 to 219895. ZEA MAYS L. Poaceae.**

Corn.

From Iowa. Seeds planted at the Regional Plant Introduction Station, Ames. Numbered July 14, 1954.

219870. *Alta Gold*. Yellow sweet. Alberta, Canada.

219871. *Assiniboine*. Mixed color flint. Bismarck, N. Dak.

219872. *Baby Orchard*. Yellow sweet. Bismarck, N. Dak.

219873. *Carnival*. Mixed color popcorn. New Hampshire.

219874. *Dakota Squaw*. Mixed color flint. Bismarck, N. Dak.

219875. *Dakota White*. White flint. Bismarck, N. Dak.

219876. *Early June*. White sweet. Bismarck, N. Dak.

219877. *Falconer*. Yellow semi-dent. Bismarck, N. Dak.

219878. *Gehu*. Yellow flint. Bismarck, N. Dak.

219879. *Golden Bantam*. Yellow sweet. Mandan, N. Dak.

219880. *Golden Gem*. Yellow sweet. Fargo, N. Dak.

219881. *Japanese Hulless*. White popcorn. Origin unknown.

219882. *Minnesota 13* (Boyd). Yellow dent. Bismarck, N. Dak.

219883. *Minnesota 13* (Haney). Yellow dent. North Dakota.

219884. *Minnesota 13* (Late). Yellow dent. Origin unknown.

219885. *Northwestern*. Red dent. Bismarck, N. Dak.

## 219870 to 219895—Continued

219886. *Nueta*. Red sweet. Bismarck, N. Dak.  
 219887. *Pioneer*. White dent. Bismarck, N. Dak.  
 219888. *Rainbow*. (Great Plains.) Mixed color flint. Mandan, N. Dak.  
 219889. *Rainbow*. (South Dakota.) Mixed color flint. Origin unknown.  
 219890. *Red Star*. Orange-yellow flint. Russian origin.  
 219891. *Rustler*. White dent. Bismarck, N. Dak.  
 219892. *Square Deal*. Yellow dent. Bismarck, N. Dak.  
 219893. *Stowel's Evergreen*. White sweet. Bismarck, N. Dak.  
 219894. *Sunshine*. Yellow sweet. Fargo, N. Dak.  
 219895. *Yellow Flour*. Yellow. Bismarck, N. Dak.

219896. *CAPSICUM FRUTESCENS* L. Solanaceae. **Redpepper.**

From Spain. Seeds presented by Burl Stugard, American Embassy, Madrid. Received July 15, 1954.

Produced commercially in the Province of Levante; paprika.

219897. *CITRUS LIMON* (L.) Burm. f. Rutaceae. **Lemon.**

From Iraq. Cuttings presented by H. Salman, through Conrad H. Hammar, United States Operations Mission, Baghdad. Received July 15, 1954.

219898. *CITRUS AURANTIFOLIA* (Christm.) Swingle. Rutaceae. **Lime.**

From Iraq. Seeds presented by H. Salman, through Conrad H. Hammer, United States Operations Mission, Baghdad. Received July 15, 1954.

219899. *ASPARAGUS OFFICINALIS* L. Convallariaceae. **Garden asparagus.**

From Iran. Seeds presented by H. C. Lint, American Embassy, Tehran. Received July 14, 1954.

## 219900 to 219954.

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 16, 1954.

219900 and 219901. *ALLIUM PORRUM* L. Liliaceae. **Leek.**

219900. No. 9. Market, Kabul. May 4, 1954.

219901. No. 292. *Gandanah*. Market, Kandahar. June 2, 1954.

219902. *ALLIUM* sp.

No. 194. Upper Tarnak Valley, Kandahar. May 27, 1954.

219903. *ASTRAGALUS* sp. Fabaceae.

No. 181. Upper Tarnak Valley, Kandahar. May 27, 1954. Small desert legume.

219904. *BRASSICA* sp. Brassicaceae.

No. 36. *Sharsham*. Market, Kabul. May 12, 1954. Used as oilseed.

219905. *CANNABIS SATIVA* L. Moraceae. **Hemp.**

No. 19. *Bang-Danah*. Market, Kabul. May 12, 1954. Source of oil for table use.



## 219900 to 219954—Continued

219906 and 219907. CITRULLUS VULGARIS Schrad. Cucurbitaceae. Watermelon.

219906. No. 91. *Tarboz* or *Hindwanah*. Market, Girishk. May 17, 1954. Large green and black melon.

219907. No. 270. *Tarboz*. Market, Kandahar. June 2, 1954.

219908. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.

No. 155. *Kherduza*. Nadi-i-Ali Training Center, Helmand Valley Authority. Girishk. May 23, 1954. Large green persian muskmelon.

219909. CYMBOPOGON sp. Poaceae.

No. 139. Near Hauz-i-Mabat, Kandahar. May 21, 1954.

219910. CYMBOPOGON sp.

No. 226. Kajakai Dam, Helmand River, Kandahar. May 29, 1954. Perennial bunchgrass.

219911 to 219913. CYNODON DACTYLON (L.) Pers. Poaceae. Bermuda grass.

219911. No. 57. Seraj Desert, south of Girishk, Kandahar. May 16, 1954.

219912. No. 119. Tarnak Valley, Kandahar. May 20, 1954.

219913. No. 176. Upper Tarnak Valley, Kandahar. May 27, 1954.

219914. DAUCUS CAROTA L. Apiaceae. Carrot.

No. 10. Market, Kabul. May 4, 1954.

219915. ECHINOCHLOA sp. Poaceae.

No. 147. Nad-i-Ali, Girishk. Training Center, Helmand Valley Authority. May 23, 1954.

219916. ELETTERIA CARDAMOMUM (L.) Maton. Zingiberaceae. Cardamom.

No. 90. Hale-l-Chai. Market, Girishk. May 17, 1954. Used to flavor tea.

219917. ERODIUM sp. Geraniaceae.

No. 140. Near Mir Karez, east of Girishk. May 21, 1954.

219918. FESTUCA sp. Poaceae.

No. 237. Kajakai Dam, Helmand River, Kandahar. May 29, 1954.

219919. HORDEUM sp. Poaceae.

No. 1. Dacca, near Khyber Pass. May 3, 1954.

219920. HORDEUM sp.

No. 46. Chah-i-Anjirs, Girishk, Kandahar. May 16, 1954. Low-growing, wild barley.

219921. HORDEUM sp.

No. 241. Thirty-five miles from Kandahar toward Kajakai Dam. May 29, 1954. Reaches a height of 3 feet.

219922. IRIS sp. Iridaceae.

No. 102. Tarnak Valley, Kandahar. May 19, 1954. Japanese-type iris.

219923. LATHYRUS SATIVUS L. Fabaceae. Bittervetch.

No. 18. *Kalol*. Market, Kabul. May 12, 1954. Table pulse; also mixed with millet and baked as bread.

219924. LATHYRUS APHACA L.

No. 73. Chal-i-ztar, south of Girishk, Kandahar. May 18, 1954. Yellow-flowered vine growing in irrigated wheat field.



## 219900 to 219954—Continued

219925. *LOLIUM* sp. Poaceae.

No. 294. Kandahar. June 2, 1954. Growing in irrigated wheat field.

219926. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.No. 286. *Saib*. Market, Kandahar. June 2, 1954. Small red dessert apple with very few seeds.219927 and 219928. *MEDICAGO SATIVA* L. Fabaceae. Alfalfa.219927. No. 157. *Rish-ka*. Nad-i-Ali, Training Center, Helmand Valley Authority, Girishk. May 23, 1954. Grown under irrigation for forage.219928. No. 280. *Reshqah*. Market, Kandahar. June 2, 1954.219929. *MELILOTUS INDICA* (L.) All. Fabaceae. Sweetclover.

No. 215. Kajakai Dam, Helmand River, Kandahar. May 29, 1954.

219930. *ONOBRYCHIS* sp. Fabaceae.

No. 253. Arghandab Dam, Kandahar. May 30, 1954.

219931. *PANICUM MILIACEUM* L. Poaceae. Proso.No. 27. *Arzan*. Market, Kabul. May 12, 1954.219932. *PENNISETUM* sp. Poaceae.

No. 179. Upper Tarnak Valley, Kandahar. May 27, 1954. Perennial bunchgrass which grows to 2 feet in height.

219933. *PHALARIS* sp. Poaceae.

No. 178. Upper Tarnak Valley, Kandahar. May 27, 1954. Grass 2 feet in height.

219934. *PHALARIS* sp.

No. 3. Dacca, near Khyber Pass. May 3, 1954. Altitude 2,500 feet.

219935. *ALOPECURUS ARUNDINACEUS* Poir. Poaceae.

No. 131. Middle Arghandab Valley, near Kandahar. May 21, 1954.

219936. *KOELERIA PHLEOIDES* (Vill.) Pers. Poaceae.

No. 220. Kajakai Dam, Helmand River, Kandahar. May 29, 1954. Small annual grass.

219937. *PHLEUM* sp. Poaceae.

No. 166. Near Dilaram, Girishk. May 25, 1954.

219938. *POA* sp. Poaceae.

No. 203. Arghandab Dam, Kandahar. May 28, 1954.

219939. *POLYPOGON* sp. Poaceae.

No. 77. Shamalan, south of Girishk, Kandahar. May 18, 1954. Low grass up to 1 foot in height.

219940. *POLYPOGON* sp.

No. 56. Seraj Desert, south of Girishk, Kandahar. May 16, 1954. Small annual grass.

219941. *POLYPOGON* sp.

No. 141. On road from Girishk to Chah-i-Anjirs. May 23, 1954. Small grass grazed to ground level by sheep and goats.

219942. *POLYPOGON* sp.

No. 74. Near Surkuduz, south of Girishk, Kandahar. May 18, 1954. Grass up to 3 feet in height.

## 219900 to 219954—Continued

219943. *PRUNUS ARMENIACA* L. Amygdalaceae. Apricot.

No. 96. *Zardalu*. Near Girishk. May 17, 1954.

219944. *PRUNUS CERASIFERA* Ehrh.

No. 264. *Alouchah*. Market, Kandahar. May 31, 1954.

219945. *PRUNUS DOMESTICA* L. Common plum.

No. 266. *Aloo-Bukhara*. Market, Kandahar. June 2, 1954.

219946. *PRUNUS* sp.

No. 320. Seventy-five miles northeast of Kandahar. June 6, 1954. Spiny shrub with gray-green leaves.

219947. *SECALE CEREALE* L. Poaceae. Rye.

No. 248. Twenty miles west of Kandahar toward Kajakai Dam. May 29, 1954. Seed found scattered in irrigated wheat field.

219948. *SETARIA ITALICA* L. Poaceae.

No. 35. Market, Kabul. May 12, 1954. Grown for bird feed.

219949. *SPINACIA OLERACEA* L. Chenopodiaceae. Spinach.

No. 24. Market, Kabul. May 12, 1954. Leaves used as a pot-herb.

219950. *STIPA* sp. Poaceae.

No. 201. Arghandab Dam, Kandahar. May 28, 1954. Perennial bunchgrass.

219951. *STIPA* sp.

No. 246. Thirty-five miles from Kandahar toward Kajakai Dam. May 29, 1954.

219952. *STIPA* sp.

No. 318. One-hundred fifteen km. northeast of Kandahar. June 6, 1954. Altitude 4,900 feet. Perennial bunchgrass 2 feet high.

219953. *TRIGONELLA INCISA* Benth. Fabaceae.

No. 251. Arghandab Dam, Kandahar. May 30, 1954.

219954. *TULIPA* sp. Liliaceae. Tulip.

No. 14. Khairkana Pass, Kabul. May 8, 1954.

## 219955 to 219957.

From Madagascar. Seeds presented by Gilbert Picard, Ambatosoratra. Received July 20, 1954.

219955. *CHLORIS VIRGATA* Sw. Poaceae.

*Antokazo*. April 1954.

219956. *CHLORIS PYCNOTHRIS* Trin.

Grown at Station du Lac Alaotra. March 1954.

219957. *FLACOURTIA INDICA* (Burm. f.) Merr. Flacourtiaceae.

## 219958 to 220039.

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 20, 1954.

219958. *AEGILOPS CRASSA* Boiss. Poaceae.

No. 101. Tarnak Valley, Kandahar. May 19, 1954. Altitude 3,000 feet. Small annual grass.

## 219958 to 220039—Continued

219959. *AEGILOPS* sp.

No. 258. Arghandab Dam, Kandahar. May 30, 1954.

219960. *AELUROPUS* sp. Poaceae.

No. 65. Qala Bist, south of Girishk, Kandahar. May 18, 1954. Altitude 2,000 feet. Small low-growing grass, saline resistant.

219961. *BRACHYPODIUM DISTACHYON* (L.) Beauv. Poaceae.

No. 6. End of Khyber Pass, Tor Khama. May 3, 1954. Altitude 2,500 feet. Small grass.

219962. *AGROPYRON BUONAPARTIS* (Spreng.) Dur. & Schinz. Poaceae.

No. 43. Chah-i-Anjirs, Girishk, Kahandar. May 16, 1954. Altitude 2,000 feet. Low annual grass.

219963. *AGROPYRON ORIENTALE* (L.) Roem. & Schult.

No. 128. Road to Chaman, 20 miles from Kandahar. May 21, 1954. A short grass.

219964. *AGROPYRON BUONPARTIS* (Spreng.) Dur. & Schinz.

No. 129. Road to Chaman, 20 miles from Kandahar. May 21, 1954. Growing on silt of the Dori River bottom.

219965. *BRACHYPODIUM DISTACHYON* (L.) Beauv. Poaceae.

No. 137. Near Hauz-i-Mabat, Kandahar. May 21, 1954. Small grass on dry dolomite outcrop.

219966. *AGROPYRON BUONPARTIS* (Spreng.) Dur. & Schinz. Poaceae.

No. 159. Near Dilaram, Girishk. May 25, 1954. Altitude 2,800 feet. Short desert annual.

219967. *AGROPYRON ORIENTALE* (L.) Roem. & Schult.

No. 160. Near Dilaram, Girishk. May 25, 1954. Altitude 2,800 feet. Hirsute glumes, short desert annual.

219968. *BRACHYPODIUM DISTACHYON* (L.) Beauv. Poaceae.

No. 168. Near Dilaram, Girishk. May 21, 1954. Altitude 2,800 feet. Short grass growing on dry edge of river bottom.

219969. *AGROPYRON* sp. Poaceae.

No. 188. Upper Tarnak Val'ey, Kandahar. May 27, 1954. Small grass.

219970. *AGROPYRON BUONOPARTIS* (Spreng.) Dur. & Schinz.

No. 218. Kajakai Dam, Helmand River, Kandahar. May 29, 1954. Grass up to 8 inches in height.

219971. *BRACHYPODIUM DISTACHYON* (L.) Beauv. Poaceae.

No. 242. Thirty-five miles from Kandahar toward Kahakai Dam. May 29, 1954. Altitude 4,800 feet. Small annual grass.

219972. *AGROPYRON BUONAPARTIS* (Spreng.) Dur. & Schinz. Poaceae.

No. 315. Sixty miles northeast of Kandahar. June 6, 1954. Altitude 4,800 feet.

219973. *AGROPYRON* sp.

No. 321. Sixty-five miles northeast of Kandahar. June 6, 1954.

219974. *ALLIUM* sp. Liliaceae.

No. 192. Upper Tarnak Valley, Kandahar. May 27, 1954.

219975. *ALOPECURUS* sp. Poaceae.

No. 74. Near Surkuduz, south of Girishk, Kandahar. May 18, 1954.



## 219958 to 220039—Continued

219976. *ANDROPOGON ANNULATUS* Forsk. Poaceae.

No. 78. South of Chah-i-Anjirs, Girishk, Kandahar. May 18, 1954.

219977. *ARISTIDA* sp. Poaceae.

No. 59. Seraj Desert, south of Girishk, Kandahar. May 16, 1954.  
Salt-resistant grass.

219978. *ARISTIDA* sp.

No. 126. Road to Chaman, 22 miles from Kandahar. May 21, 1954. Up to 2 feet in height.

219979. *ARISTIDA* sp.

No. 158. Marja Desert, south of Girishk. May 23, 1954. Perennial grass.

219980. *ARISTIDA* sp.

No. 170. Near Dilaram, Girishk. May 25, 1954. Short desert grass found on dry knolls.

219981. *ARISTIDA* sp.

No. 180. Upper Tarnak Valley, Kandahar. May 27, 1954. Small grass.

219982. *BOISSIERA* sp. Poaceae.

No. 60. Seraj Desert, south of Girishk, Kandahar. May 16, 1954. Short annual grass.

219983. *BOISSIERA* sp.

No. 115. Tarnak Valley, Kandahar. May 20, 1954. Short annual found in dry irrigation ditches.

219984. *BOISSIERA* sp.

No. 167. Near Dilaram, Girishk. May 25, 1954. Short grass found in desert.

219985. *BOISSIERA* sp.

No. 174. Upper Tarnak Valley, Kandahar. May 27, 1954. Small grass.

219986. *BOISSIERA* sp.

No. 216. Kajakai Dam, Helmand River, Kandahar. May 29, 1954.

219987. *BOISSIERA* sp.

No. 224. Kajakai Dam, Helmand River, Kandahar. May 29, 1954. Small annual grass.

219988. *BRACHIARIA ERUCAEFORMIS* (J. E. Smith) Griseb. Poaceae.

No. 296. Kandahar. June 2, 1954. Small grass growing in damp soil.

219989. *BROMUS* sp. Poaceae.

No. 44. Chah-i-Anjirs, Girishk, Kahandar. May 16, 1954. Altitude 2,000 feet. Low annual grass; rainfall 4 to 5 inches annually.

219990. *BROMUS* sp.

No. 45. Chah-i-Anjirs, Girishk, Kahandar. May 16, 1954. Annual rainfall 4–5 inches.

219991. *BROMUS PSEUDODANTHONIAE* Drobor.

No. 58. Seraj Desert, south of Girishk, Kandahar. May 16, 1954. Small grass.

219992 and 219993. *BROMUS TECTORUM* L.

219992. No. 63. Seraj Desert, south of Girishk, Kandahar. May 16, 1954.  
Saline-resistant grass.

219993. No. 67. Qala Bist, south of Girishk, Kandahar. May 18, 1954.



## 219958 to 220039—Continued

219994. *BROMUS PSEUDODANTHONIAE* Drobor.

No. 105. Tarnak Valley, Kandahar. May 19, 1954.

219995. *BROMUS SCOPARIUS* L.

No. 107. Tarnak Valley, Kandahar. May 19, 1954. Small grass up to 10 inches in height, growing along a dry irrigation ditch.

219996. *BROMUS TECTORUM* L.

No. 125. Road to Chaman, 22 miles from Kandahar. May 21, 1954. Small grass buried in red sands.

219997 and 219998. *BROMUS MADRITENSIS* L.

219997. No. 136. Near Hauz-i-Mabat, Kandahar. May 21, 1954. Small grass on dry dolomite outcrop.

219998. No. 149. Nad-i-Ali, Girishk, Training Center, Helmand Valley Authority. May 23, 1954. Forage grass.

219999. *BROMUS RACEMOSUS* L.

No. 165. Near Dilaram, Girishk. May 25, 1954. Short, well-grazed brome grass on river bottom silt.

220000. *BROMUS TECTORUM* L.

No. 169. Near Dilaram, Girishk. May 25, 1954. Altitude 2,800 feet. Short grass in dry desert wash.

220001. *BROMUS* sp.

No. 182. Upper Tarnak Valley, Kandahar. May 27, 1954.

220002. *BROMUS* sp.

No. 195. Upper Tarnak Valley, Kandahar. May 27, 1954.

220003. *BROMUS* sp.

No. 222. Kajakai Dam, Helmand River, Kandahar. May 29, 1954. Annual grass.

220004. *BROMUS MADRITENSIS* L.

No. 228. Kajakai Dam, Helmand River, Kandahar. May 29, 1954. Annual grass.

220005. *BROMUS DANTHONIAE* Trin.

No. 234. Kajakai Dam, Helmand River, Kandahar. May 29, 1954.

220006 and 220007. *BROMUS TECTORUM* L.

220006. No. 235. Kajakai Dam, Helmand River, Kandahar. May 29, 1954. Annual grass.

220007. No. 255. Arghandab Dam, Kandahar. May 30, 1954. Annual grass.

220008. *BROMUS* sp.

No. 256. Arghandab, Kandahar. May 30, 1954. Annual grass on dry hillside.

220009. *BROMUS* sp.

No. 257. Arghandab Dam, Kandahar. May 30, 1954. Annual grass.

220010. *BROMUS TECTORUM* L.

No. 307. Sixty miles northeast of Kandahar. June 6, 1954. Altitude 4,600 feet. Growing in dry silty soil.

## 219958 to 220039—Continued

220011. *CALAMAGROSTIS* sp. Poaceae.

No. 314. Sixty-two miles northeast of Kandahar. June 6, 1954. Altitude 4,700 feet. Grass up to 2 feet tall.

220012. *CALLIGONUM* sp. Polygonaceae.

No. 127. Road to Chaman, 20 miles from Kandahar. May 21, 1954. Common gray-green desert plant on the red sands.

220013. *CITRULLUS COLOCYNTHIS* (L.) Schrad. Cucurbitaceae. Colocynth.

No. 260. Twenty miles west of Kandahar on road to Girishk. May 31, 1954.

220014. *DAUCUS CAROTA* L. Apiaceae.

Carrot.

No. 28. *Zardak*. Market, Kabul. May 12, 1954.

220015. *ELYMUS* sp. Poaceae.

No. 204. Arghandab Dam, Kandahar. May 28, 1954. Small annual grass.

220016. *ELYMUS* sp.

No. 229. Kajakai Dam, Helmand River, Kandahar. May 29, 1954. Black wiry awned grass.

220017. *FESTUCA* sp. Poaceae.

No. 205. Arghandab Dam, Kandahar. May 28, 1954. Annual grass on dry slope.

220018. *FESTUCA* sp.

No. 236. Kajakai Dam, Helmand River, Kandahar. May 29, 1954.

220019. *LOLIUM* sp. Poaceae.

No. 177. Upper Tarnak Valley, Kandahar. May 27, 1954.

220020. *LOLIUM* sp.

No. 225. Kajakai Dam, Helmand River, Kandahar. May 29, 1954. Small annual grass.

220021. *MEDICAGO ORBICULARIS* (L.) All. Fabaceae.

Buttonclover.

No. 69. Chal-i-ztar, south of Girishk, Kandahar. May 18, 1954. Altitude 2,000 feet.

220022. *MELILOTUS INDICA* (L.) All. Fabaceae.

Sweetclover.

No. 142. Road from Girishk to Chah-i-Anjirs, May 23, 1954.

220023. *ONOBRYCHIS* sp. Fabaceae.

No. 252. Arghandab Dam, Kandahar. May 30, 1954.

220024. *PANICUM MILIACEUM* L. Poaceae.

Proso.

No. 278. *Arzan*. Market, Kandahar. June 2, 1954. Seeds sold for feeding birds.

220025. *PANICUM* sp.

No. 148. Nad-i-Ali, Girishk, Training Center, Helmand Valley Authority.

220026. *PANICUM ANTIDOTALE* Retz.

No. 212. Kajakai Dam, Helmand River, Kandahar. May 29, 1954. Grass up to 3 feet in height.

220027. *PANICUM* sp.

No. 259. Arghandab Dam, Kandahar. May 30, 1954. Small millet-like grass.

**219958 to 220039—Continued**

220028. *PAPPOPHORUM* sp. Poaceae.

No. 202. Arghandab Dam, Kandahar. May 28, 1954. Perennial bunchgrass.

220029. *PAPPOPHORUM* sp.

No. 217. Kajakai Dam, Helmand River, Kandahar. May 29, 1954. Perennial bunchgrass.

220030. *PENNISETUM* sp. Poaceae.

No. 124. Road to Chaman, 20 miles from Kandahar. May 21, 1954. Up to 3 feet in height.

220031. *PENNISETUM* sp.

No. 223. Kajakai Dam, Helmand River, Kandahar. May 29, 1954. Perennial bunchgrass.

220032. *PENNISETUM* sp.

No. 245. Thirty-five miles from Kandahar toward Kajakai Dam. May 29, 1954. Altitude 4,800 feet. Perennial bunchgrass.

220033. *PHALARIS* sp. Poaceae.

No. 47. Seraj Desert, south of Girishk, Kandahar. May 16, 1954. Up to 2 feet in height.

220034. *PHALARIS* sp.

No. 52. Seraj Desert, south of Girishk, Kandahar. May 16, 1954.

220035. *KOELERIA PHLEOIDES* (Vill.) Pers. Poaceae.

No. 55. Seraj Desert, south of Girishk, Kandahar. May 16, 1954.

220036. *POA* sp. Poaceae.

No. 138. Near Hauz-i-Mabat, Kandahar. May 21, 1954. Common desert grass.

220037. *POLYPOGON* sp. Poaceae.

No. 51. Seraj Desert, south of Girishk, Kandahar. May 16, 1954. Wild grass.

220038. *SCLEROCHLOA* sp. Poaceae.

No. 104. Tarnak Valley, Kandahar. May 19, 1954. Small grass up to 1 foot in height, on arid silt.

220039. *ASTRAGALUS* sp. Fabaceae.

No. 208. Arghandab Dam, Kandahar. May 28, 1954. Very small legume.

**220040. *GOSSYPIUM BARBADENSE* L. Malvaceae. Sea-island cotton.**

From Colombia. Seeds presented by H. D. Barker, Field Crops Research Branch, Agricultural Research Service, Beltsville, Md. Received July 21, 1954. *Lengua*. Grown near Socorro, Department Santander.

**220041 to 220052. *PRUNUS PERSICA* (L.) Batsch. Amygdalaceae.**

**Peach.**

From the Union of South Africa. Trees presented by Herholdt's Nurseries. Johannesburg, Transvaal. Received July 21, 1954.

220041. *Alpha Supreme*.

220047. *Kakamas* (a).

220042. *Boland*.

220048. *Kakamas* (b).

220043. *Camperdown*.

220049. *Keimoes*.

220044. *Culemborg*.

220050. *Maluti*.

220045. *Goosen*.

220051. *Tokani*.

220046. *Herholdt's U15*.

220052. *Van Riebeeck*.



**220053 to 220058.**

From Iraq. Seeds presented by H. W. Springfield, American Embassy, Baghdad. Received July 22, 1954.

**220053.** *CHRYSOPOGON GRYLLUS* (L.) Trin. Poaceae.

No. 76. Twenty miles west of Sulaimaniya. June 16, 1954. Altitude 2,000 feet. Tall bunchgrass with basal clump of green leaves about 12-15 inches long. Strongly rooted and apparently a good soil binder.

**220054 and 220055.** *HORDEUM BULBOSUM* L. Poaceae.

**220054.** No. 75. Inside Chemchemical fenced area. June 17, 1954. Altitude 2,100 feet. Vigorous species that remains green after most other vegetation in area is dry. Produces considerable forage.

**220055.** No. 78. Twenty miles west of Sulaimaniya. June 16, 1954. Altitude 2,000 feet.

**220056.** *PHALARIS TUBEROSA* L. Poaceae. **Large canary grass.**

No. 77. Twenty miles west of Sulaimaniya. June 16, 1954. Altitude 2,000 feet.

**220057.** *TRIFOLIUM RESUPINATUM* L. Fabaceae. **Persian clover.**

No. 60. Twelve miles west of Baghdad. May 1954. Produces abundance of green forage throughout the early spring season.

**220058.** *VICIA* sp. Fabaceae.

No. 74. Found near Bakrajo. Altitude 2,300 feet. June 17, 1954. Small annual legume; prolific seeder.

**220059 to 220063.**

From Pakistan. Seeds collected by H. S. Gentry and E. E. Smith, Agricultural Explorers, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 23, 1954.

**220059.** *JUGLANS REGIA* L. Juglandaceae. **Persian walnut.**

No. 13993. Market, Rawalpindi. Apr. 11, 1954. Nuts large, rather hard to crack, but well flavored. Reported to be from Kashmir.

**220060 to 220062.** *PRUNUS AMYGDALUS* Batsch. Amygdalaceae. **Almond.**

**220060.** No. 13994. Market, Rawalpindi. Apr. 11, 1954. Nuts with large, strong, pointed hulls. Reported from Iran.

**220061.** No. 14160. Market, Desra Ismail Khan, Northwestern Frontier Province. Apr. 24, 1954. Nuts rather bitter. Reported from Afghanistan.

**220062.** No. 14127. Market, Bannu, Northwestern Frontier Province. Apr. 23, 1954. Small, rather thin-shelled. Reported to be from Afghanistan.

**220063.** *PRUNUS ARMENIACA* L. **Apricot.**

No. 14161. Market, Desra Ismail Khan Northwestern Frontier Province. Apr. 24, 1954. Seed sweet. Reported to be from Afghanistan.

**220064.** *GOSSYPIUM HIRSUTUM* L. Malvaceae. **Upland cotton.**

From the Union of South Africa. Seeds presented by Officer in Charge, Agricultural Research Station, Barberton. Received July 23, 1954.

*B-181* Upland. Resistant to verticillium wilt and angular leaf spot.

**220065 and 220066.** *ZEA MAYS* L. Poaceae. **Corn.**

From Peru. Seeds presented by A. F. Swanson, United States Operations Mission, Lima. Received July 23, 1954.

**220065.** No. 3. La Molina hybrid corn from the selfed lines: *L. M. 3 Estrella* × *La Molina No. 1 Santa Clara*.

**220066.** No. 5. La Molina Synthetic.



## 220067 to 220077.

From Pakistan. Seeds presented by D. T. Painter, United States Foreign Operations Administration, Lahore. Received July 23, 1954. All seeds grown in the Punjab.

220067 and 220068. *AVENA SATIVA* L. Poaceae. Oats.

220067. Punjab-Algerian.

220068. Punjab No. 11.

220069. *HORDEUM* sp. Poaceae.

No. C-141.

220070. *HORDEUM* sp.

No. T-5.

220071 to 220077. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.

220071. C217

220075. C273

220072. C228

220076. C518

220073. C250

220077. C591

220074. C271

220078. *DOLICHOS BIFLORUS* L. Fabaceae.

From India. Seeds presented by the Director, Central Food Technological Research Institute, Mysore. Received July 29, 1954.

## 220079 to 220146.

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 26, 1954.

220079. *AELUROPUS LITTORALIS* (Gouan) Parl. Poaceae.

No. 171. Near Dilaram, Girishk. May 25, 1954. Salt-tolerant grass that is well grazed.

220080. *EREMOPOA PERSICA* (Trin.) Rosher. Poaceae.

No. 106. Tarnak Valley, Kandahar. May 19, 1954.

220081. *ALLIUM CEPA* L. Liliaceae.

Onion.

No. 284. Piaz. Market, Kandahar. June 2, 1954.

220082. *ALLIUM PORRUM* L.

Leek.

No. 23. *Gandanah*. Market, Kabul. May 12, 1954. Used as a vegetable, both cooked and raw.

220083. *ALLIUM* sp.

No. 116. Tarnak Valley, Kandahar. May 20, 1954. Found in irrigated wheat fields.

220084. *ASTRAGALUS* sp. Fabaceae.

No. 197. Red Sands Desert, 40 km. southeast of Kandahar. May 27, 1954.

220085. *ASTRAGALUS* sp.

No. 112. Tarnak Valley, Kandahar. May 20, 1954.

220086. *AVENA* sp. Poaceae.

No. 306. Kandahar. June 2, 1954. Growing wild in an irrigated wheat field.

220087. *BETA VULGARIS* L. Chenopodiaceae.

Beet.

No. 17. *Lablabow*. Baghlan Market, Kabul. May 12, 1954.

## 220079 to 220146—Continued

220088. *BROMUS* sp. Poaceae.

No. 168. Near Dilaram, Girishk. May 25, 1954.

220089. *BROMUS MADRITENSIS* L.

No. 227. Kajakai Dam, Helmand River, Kandahar. May 29, 1954. Annual grass on dry hillside.

220090. *CHRYSOPOGON* sp. Poaceae.

No. 214. Kajakai Dam, Helmand River, Kandahar. May 29, 1954. Perennial bunchgrass, well grazed.

220091. *CUCUMIS SATIVUS* L. Cucurbitaceae.

Cucumber.

No. 262. *Khlar*. Market, Kandahar. May 31, 1954.

220092. *CUCURBITA MOSCHATA* Duchesne. Cucurbitaceae.

Cushaw.

No. 268. *Kadow*. Market, Kandahar. June 2, 1954. Large orange-colored squash up to 6 decimeters in length.

220093. *ERAGROSTIS* sp. Poaceae.

No. 68. South of Qala Bist, Girishk, Kandahar. May 18, 1954.

220094. *ERAGROSTIS POAEOIDES* Beauv.

No. 254. Arghandab Dam, Kandahar. May 30, 1954.

220095. *EREMURUS* sp. Liliaceae.

No. 108. Tarnak Valley, Kandahar. May 19, 1954. Plant up to 6 decimeters in height with roots that are used to make glue.

220096. *HORDEUM* sp. Poaceae.

Barley.

No. 16. *Jaw*. Market, Kabul. May 12, 1954. Used mostly for cattle feed.

220097. *HORDEUM* sp.

No. 48. *Jaw*. Seraj Desert, south of Girishk, Kandahar. May 16, 1954. Irrigated in small patches; stems short.

220098. *HORDEUM* sp.

No. 121. Tarnak Valley, Kandahar. May 20, 1954. Irrigated barley; stems short.

220099. *HORDEUM* sp.

No. 304. *Jaw*. Kandahar. June 2, 1954. Irrigated barley; stems short.

220100. *HORDEUM* sp.

No. 308. One hundred km. northeast of Kandahar. June 6, 1954. Long-headed wild barley.

220101. *IRIS* sp. Iridaceae.

No. 53. Seraj Desert, south of Girishk, Kandahar. May 16, 1954.

220102. *KOELERIA* sp. Poaceae.

No. 4. Dacca, near Khyber Pass. May 3, 1954. Altitude 2,500 feet. Annual grass.

220103. *LOLIUM* sp. Poaceae.

No. 42. Girishk, Kandahar. May 16, 1954. Annual up to 1 meter in height, growing in a wheat field.

220104. *LOLIUM* sp.

No. 200. Arghandab Dam, Kandahar. May 28, 1954.

220105. *LOLIUM* sp.

No. 293. Kandahar. June 2, 1954.

## 220079 to 220146—Continued

220106. *MORUS* sp. Moraceae. **Mulberry.**  
 No. 99. *Toot.* Near Girishk. May 17, 1954. Large white- and purple-fruited sweet mulberry.
220107. *PAPAVAR SOMNIFERUM* L. Papaveraceae. **Opium poppy.**  
 No. 290. *Khash-Khash.* Market, Kandahar. June 2, 1954. Oil is extracted from seeds, mixed with cows milk and used as a food.
220108. *PHASEOLUS AUREUS* Roxb. Fabaceae. **Mung bean.**  
 No. 92. *Mash.* Market, Girishk. May 18, 1954.
220109. *POA* sp. Poaceae.  
 No. 183. Upper Tarnak Valley, Kandahar. May 27, 1954. Desert annual, apparently well grazed in the spring.
220110. *PRUNUS CERASIFERA* Ehrh. Amygdalaceae. **Myrobalan plum.**  
 No. 267. *Aloochah.* Market, Kandahar. June 2, 1954.
- 220111 and 220112. *PRUNUS DOMESTICA* L. **Common plum.**  
 220111. No. 173. *Aloochah.* Market, Girishk. May 25, 1954.  
 220112. No. 263. *Aloobukharh.* Market, Kandahar. May 31, 1954.
220113. *PRUNUS* sp.  
 No. 209. Arghandab Dam, Kandahar. May 28, 1954. Small shrub with spiny branches.
220114. *SCHISMUS* sp. Poaceae.  
 No. 79. South of Chah-i-Anjirs, Girishk, Kandahar. May 18, 1954. Grazed to ground level.
220115. *SCHISMUS* sp.  
 No. 232. Kajakai Dam, Helmand River, Kandahar. May 29, 1954.
220116. *SCHISMUS* sp.  
 No. 238. Twenty miles toward Kandahar from Kajakai Dam. May 29, 1954. One of the chief spring forage grasses.
220117. *SCLEROPOA* sp. Poaceae.  
 No. 132. Middle Arghandab Valley, near Kandahar. May 21, 1954. Up to 1 meter in height.
- 220118 and 220119. *SECALE CEREALE* L. Poaceae. **Rye.**  
 220118. No. 305. Kandahar. June 2, 1954. Small heads. Plant up to 15 decimeters in height.  
 220119. No. 312. *Jawad.* One hundred km. northeast of Kandahar. June 6, 1954. Altitude 1,500 meters. Large-headed rye found growing in an irrigated wheat field.
220120. *SOLANUM MELONGENA* L. Solanaceae. **Eggplant.**  
 No. 291. *Badenjan-Sesame.* Market, Kandahar. June 2, 1954.
220121. *SPINACIA OLERACEA* L. Chenopodiaceae. **Spinach.**  
 No. 283. *Palak.* Market, Kandahar. June 2, 1954.
220122. *TRIFOLIUM ALEXANDRINUM* L. Fabaceae. **Berseem.**  
 No. 22. *Shaftal-i-Englisie.* Market, Kabul. May 12, 1954. Grown for cattle food.
220123. *TRIGONELLA* sp. Fabaceae.  
 No. 243. Fifty km. from Kandahar toward Kajakai Dam. May 29, 1954. Small yellow-flowered annual. Plants are all well browsed.



**220079 to 220146—Continued**

220124 to 220145. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.

220124. No. 20. *Gandom-Surkh*. Market, Kabul. May 12, 1954.

220125. No. 21. *Gandom-Tiramahi*. Market, Kabul. May 12, 1954. Produces white flour.

220126. No. 109. Tarnak Valley, Kandahar. May 19, 1954. Large-headed irrigated wheat.

220127. No. 110. Tarnak Valley, Kandahar. May 19, 1954. Irrigated.

220128. No. 120. Tarnak Valley, Kandahar. May 20, 1954. Irrigated, about 1 meter high.

220129. No. 143. Sixteen km. south of Girishk. May 23, 1954. Short-headed red wheat; stalks stiff; about 1 meter high.

220130. No. 144. Sixteen km. south of Girishk. May 23, 1954. Large-headed red wheat; stalks stiff; about 1 meter high.

220131. No. 145. Sixteen km. south of Girishk. May 23, 1954. Short-headed white wheat; ripens early. Stalks about 1 meter high.

220132. No. 146. Sixteen km. south of Girishk. May 23, 1954. Stems 1 meter in height and stiff.

220133. No. 189. Upper Tarnak Valley, Kandahar. May 27, 1954. Stems up to 7 decimeters in height with large grains.

220134. No. 240. Eighty km. from Kandahar toward Kajahai Dam. May 29, 1954. Products about 5 bushels per acre. Stems very short, 4-6 decimeters.

220135. No. 247. Thirty km. from Kandahar toward Kajakai Dam. May 29, 1954. Small-headed.

220136. No. 297. Kandahar. June 2, 1954. Pubescent with irrigated wheat to 1 meter in height.

220137. No. 298. Kandahar. June 2, 1954. Smooth awned, white to reddish in color; 1 meter in height.

220138. No. 299. Kandahar. June 2, 1954. Small reddish heads to 1 meter in height.

220139. No. 300. Kandahar. June 2, 1954. Red wheat, nodding heads, awned with stiff stems to 1 meter in height.

220140. No. 302. *Gandum*. Kandahar. June 2, 1954. Irrigated red wheat to 1 meter in height.

220141. No. 302. *Gandum*. Kandahar. June 2, 1954. Tall, large-headed.

220142. No. 303. *Gandum*. Kandahar. June 2, 1954. Large-headed.

220143. No. 309. One hundred km. northeast of Kandahar. June 6, 1954. Altitude 1,500 meters. Pubescent, red, awned to 1 meter in height.

220144. No. 310. One hundred km. northeast of Kandahar. June 6, 1954. Altitude 1,500 meters. Large-headed, reddish color, to 1 meter in height.

220145. No. 311. One hundred km. northeast of Kandahar. June 6, 1954. Altitude 1,500 meters.

220146. *VIGNA SINENSIS* (Torner) Savi. Fabaceae.

Cowpea.

No. 94. *Lobia*. Market, Girishk. May 17, 1954.



- 220147 and 220148. TRIFOLIUM ALEXANDRINUM L. Fabaceae. Berseem.**  
From Pakistan. Seeds presented by the Fodder Research Station, Sargodha, Punjab. Received July 26, 1954.  
220147. *Frontier*.  
220148. *Punjab*.
- 220149. MELOCANNA BACCIFERA (Roxb.) Kurz. Poaceae. Bamboo.**  
From India. Seeds presented by the Silviculturist, Assam, Shillong. Received July 27, 1954.
- 220150. CARICA MONOICA Desf. Caricaceae.**  
From Peru. Seeds presented by Hector W. Garayar, Tingo María Station, Tingo María, through A. F. Swanson, FOA, Lima. Received July 27, 1954.
- 220151. CITRUS LIMON (L.) Burm. f. Rutaceae. Lemon.**  
From India. Cuttings collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Mar. 9, 1954; numbered July 28, 1954.  
No. 13624. Horticultural Research Station, Saharanpur. Feb. 15, 1954.  
*Kaghisi Long*.
- 220152. SOLANUM TUBEROSUM L. Solanaceae. Potato.**  
From Australia. Tubers received from N. S. Shirlow, Department of Agriculture, Sydney, New South Wales. Received July 28, 1954.  
*Bismark*.
- 220153 and 220154.**  
From India. Seeds presented by R. D. Asana, Indian Agricultural Research Institute, New Delhi. Received July 28, 1954.  
220153. *HIBISCUS PUNGENS* Roxb. Malvaceae.  
*I.W. 129*.  
220154. *HIBISCUS TETRAPHYLLUS* Roxb.  
*I. W. 212*.
- 220155 to 220211.**  
From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 28, 1954.
220155. *ASTRAGALUS* sp. Fabaceae.  
No. 111. Tarnak Valley, Kandahar. May 20, 1954. Small desert legume.
220156. *ASTRAGALUS* sp.  
No. 114. Tarnak Valley, Kandahar. May 20, 1954.
220157. *ASTRAGALUS* sp.  
No. 117. Tarnak Valley, Kandahar. May 20, 1954. Plant often grazed to ground level.
220158. *ASTRAGALUS* sp.  
No. 122. Tarnak Valley, Kandahar. May 21, 1954. Small annual.
220159. *ASTRAGALUS* sp.  
No. 123. Road to Chaman, 20 miles from Kandahar. May 21, 1954. Altitude 3,000 feet up to 2½ feet in height, with yellow flowers.

## 220155 to 220211—Continued

220160. *ASTRAGALUS* sp.

No. 257. Arghandab Dam, Kandahar. May 28, 1954.

220161. *ASTRAGALUS* sp.

No. 219. Kajakai Dam, Helmand River, Kandahar. May 29, 1954.

220162. *ASTRAGALUS* sp.

No. 249. Arghandab Dam, Kandahar. May 30, 1954. Plant prostrate.

220163. *ASTRAGALUS* sp.

No. 250. Arghandab Dam, Kandahar. May 30, 1954.

220164. *ASTRAGALUS* sp.

No. 319. Sixty miles northeast of Kandahar. June 6, 1954. Small spiny plant.

220165. *BETA VULGARIS* L. Chenopodiaceae. Beet.

No. 8. Market, Kabul. May 4, 1954.

220166. *BRASSICA RAPA* L. Brassicaceae. Turnip.No. 277. *Shalgham*. Market, Kandahar. June 2, 1954.220167. *CICER ARIETINUM* L. Fabaceae. Chickpea.No. 152. *No-Khud*. Nad-i-Ali, Training Center, Helmand Valley Authority, Girishk. May 23, 1954.220168. *CLEOME* sp. Capparidaceae.

No. 162. Near Dilaram, Girishk. May 25, 1954. Altitude 2,800 feet.

220169. *CUCUMIS SATIVUS* L. Cucurbitaceae. Cucumber.No. 84. *Khlar*. Market, Girishk. May 17, 1954.220170. *CUCUMIS MELO* var. *FLEXUOSUS* (L.) Naud.No. 274. *Tarah*. Market, Kandahar. June 2, 1954.220171. *CUCUMIS SATIVUS* L.No. 287. *Khlar*. Market, Kandahar. June 2, 1954.220172. *LACTUCA SATIVA* L. Cichoriaceae. Lettuce.No. 281. *Kahoo*. Market, Kandahar. June 2, 1954.220173. *LAMARCKIA AUREA* (L.) Moench. Poaceae.

No. 2. Dacca, near Khyber Pass. May 3, 1954. Altitude 2,500 feet.

220174 and 220175. *PISUM SATIVUM* L. Fabaceae. Pea.

220174. No. 13. Market, Kabul. May 4, 1954.

220175. No. 150. Nad-i-Ali, Training Center, Helmand Valley Authority. May 23, 1954.

220176. *LATHYRUS* sp.No. 151. *Ko-loul*. Nad-i-Ali, Training Center, Helmand Valley Authority. May 23, 1954.220177. *LATHYRUS APHACA* L. Fabaceae.

No. 130. Central Arghandab Valley, near Kandahar. May 21, 1954.

220178. *LOLIUM* sp. Poaceae.

No. 221. Kajakai Dam, Helmand River, Kandahar. May 29, 1954.

220179. *LOLIUM* sp.

No. 230. Kajakai Dam, Helmand River, Kandahar. May 29, 1954.

## 220155 to 220211—Continued

220180. *ONOBRYCHIS* sp. Fabaceae.

No. 41. Desert south of Girishk, Kandahar. May 16, 1954.

220181. *ONOBRYCHIS* sp.

No. 62. Seraj Desert, south of Girishk, Kandahar. May 16, 1954. Small annual.

220182. *ONOBRYCHIS* sp.

No. 113. Tarnak Valley, Kandahar. May 20, 1954.

220183. *ONOBRYCHIS* sp.

No. 161. Near Dilaram, Girishk. May 25, 1954.

220184. *ONOBRYCHIS* sp.

No. 244. Thirty-five miles from Kandahar toward Kajakai Dam. May 29, 1954. Altitude 4,800 feet.

220185 and 220186. *PAPAYER SOMNIFERUM* L. Papaveraceae. Opium poppy.

220185. No. 86. *Khash-Khash*. Market, Girishk. May 17, 1954. Oilseed.

220186. No. 265. *Kohnar* or *Khash-Khash*. Market, Kandahar. June 2, 1954. Capsules sold in market.

220187. *PAPAYER* sp.

No. 76. Surkuduz, south of Girishk, Kandahar. May 18, 1954. Wild poppy in arid region.

220188. *PAPAYER* sp.

No. 191. Upper Tarnak Valley, Kandahar. May 27, 1954. Small poppy found along a dry wash.

220189. *PISUM SATIVUM* L. Fabaceae.

Pea.

No. 32. *Mushung*. Market, Kabul. May 12, 1954.

220190. *PLANTAGO* sp. Plantaginaceae.

No. 49. Seraj Desert, south of Girishk, Kandahar. May 16, 1954. Small desert annual; seeds eaten by desert people.

220191. *PLANTAGO* sp.

No. 50. Seraj Desert, south of Girishk, Kandahar. May 16, 1954. Small desert annual. Seeds eaten by desert people.

220192. *PLANTAGO* sp.

No. 88. *Esfarzah*. Market, Girishk. May 17, 1954. Seeds used in tea as stomachic.

220193. *POA BULBOSA* L. Poaceae.

No. 40. North of Kalat-i-Ghilzai on road to Kabul. May 14, 1954. Altitude 6,000 feet.

220194. *POA BULBOSA* L.

No. 231. Kajakai Dam, Helmand River, Kandahar. May 29, 1954.

220195. *POA* sp.

No. 233. Kajakai Dam, Helmand River, Kandahar. May 29, 1954.

220196 and 220197. *PRUNUS ARMENIACA* L. Amygdalaceae. Apricot.

220196. No. 133. Kandahar. May 21, 1954. Very sweet apricot.

220197. No. 261. *Zardaloo*. Market, Kandahar. May 31, 1954. Fruit sweet, greenish yellow, and about 2 inches in diameter.

**220155 to 220211—Continued**

220198. *PRUNUS DOMESTICA* L. Common plum.

No. 97. *Aloochah*. Near Girishk, May 17, 1954. Fruit smooth, greenish.

220199. *SCHISMUS* sp. Poaceae.

No. 118. Tarnak Valley, Kandahar. May 20, 1954. Low annual grass, well grazed.

220200. *SPHENOPUS* sp. Poaceae.

No. 54. Seraj Desert, south of Girishk, Kandahar. May 16, 1954. Small roadside grass.

220201. *TRIFOLIUM PRATENSE* L. Fabaceae. Red clover.

No. 33. *Nistarang*. Market, Kabul. May 12, 1954.

220202 to 220204. *TRIFOLIUM RESUPINATUM* L. Persian clover.

220202. No. 29. *Shabdar*. Market, Kabul. May 12, 1954. Grown for cattle feed; also eaten as a green vegetable both raw and cooked.

220203. No. 156. *Shaftal*. Nad-i-Ali, Training Center, Helmand Valley Authority, Girishk. May 23, 1954. Grown for green forage.

220204. No. 172. *Shaftal*. Near Girishk. May 25, 1954.

220205. *TRIGONELLA MONANTHA* C. A. Mey. Fabaceae.

No. 206. Arghandab Dam, Kandahar. May 28, 1954.

220206. *TRIGONELLA* sp.

No. 317. Sixty miles northeast of Kandahar. June 6, 1954. Yellow flowered, spiny shrub up to 3 feet high.

220207. *VICIA ERVILIA* (L.) Willd. Fabaceae.

No. 12. Market, Kabul. May 4, 1954.

220208. *VICIA FABA* L. Broadbean.

No. 153. *Bocckli*. Nad-i-Ali, Training Center, Helmand Valley Authority, Girishk. May 23, 1954.

220209 to 220211. *VIGNA SINENSIS* (Torner) Savi. Fabaceae. Cowpea.

220209. No. 93. *Lobia*. Market, Girishk. May 18, 1954.

220210. No. 169. *Lobia-Surkh*. Market, Kandahar. June 2, 1954.

220211. No. 271. *Lobia*. Market, Kandahar. June 2, 1954.

**220212 and 220213.**

From Peru. Tubers presented by Rafael Valverde C., Servicio Cooperativo Inter-Americano, Iquitos. Received July 29, 1954.

220212. *DIOSCOREA* sp. Dioscoreaceae.

*Blanca*.

220213. *DIOSCOREA* sp.

*Morada*.

220214 and 220215. *ORYZA SATIVA* L. Poaceae. Rice.

From British Honduras. Seeds presented by Stanton Morrison, Department of Agriculture, Belize. Received July 30, 1954.

220214. *British Honduras Creole*.

220215. *British Guiana 79*.



**220216 and 220217.**

From Pakistan. Seeds collected by H. S. Gentry and E. E. Smith, Agricultural Explorers, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 30, 1954.

220216. *CARALLUMA* sp. Asclepiadaceae.

No. 14218. Near Dargar, Swat. May 1, 1954. Altitude 2,500-3,000 feet. Succulent, caespitose, leafless perennial, eaten cooked as a vegetable.

220217. *SENECIO CRUENTUS* DC. Asteraceae.

No. 14034. Gordon College, Rawalpindi, Punjab. Apr. 15, 1954. Ornamental annual with brilliant reddish or purple flowers. Said to be the parent of the cineraria of florists.

**220218 to 220220.**

From French West Africa. Seeds presented by L. F. Hough, United States Operations Mission to Liberia, Monrovia, Liberia. Received July 30, 1954. Collected along roadside areas between Zinder and Agades, Niger Colony.

220218. *ANDROPOGON* sp. Poaceae.

Tall, coarse grass up to 8 feet in height.

220219. *CHLORIS* sp. Poaceae.

Fine-stemmed grass about 3 feet in height.

220220. *ERAGROSTIS TREMULA* Hochst. Poaceae.

Fine bunchgrass about 2 feet in height.

**220221 to 220238.**

From India. Seeds presented by the Director of Agriculture, Madras, through C. C. Taylor, New Delhi. Received Aug. 3, 1954.

220221. F <sub>1</sub>	220230. F <sub>2</sub> -9
220222. F <sub>2</sub> -1	220231. F <sub>2</sub> -10
220223. F <sub>2</sub> -2	220232. F <sub>2</sub> -11
220224. F <sub>2</sub> -3	220233. F <sub>2</sub> -12
220225. F <sub>2</sub> -4	220234. F <sub>2</sub> -13
220226. F <sub>2</sub> -5	220235. F <sub>2</sub> -14
220227. F <sub>2</sub> -6	220236. F <sub>2</sub> -15
220228. F <sub>2</sub> -7	220237. F <sub>2</sub> -16
220229. F <sub>2</sub> -8	220238. F <sub>2</sub> -17

**220239 to 220245.**

From Taiwan. Budwood presented by the Director, Taiwan Agricultural Research Institute, Taipei. Received Aug. 3, 1954.

220239. *CITRUS MEDICA* var. *SARCODACTYLIS* (Noot.) Swingle. Rutaceae.  
Fingered citron.

220240 to 220245. *CITRUS*.

220240. <i>Banhakuyu</i> .	220243. <i>Mato Buntanyu</i> .
220241. <i>Koshotankan</i> .	220244. <i>Mato Hakuyu</i> .
220242. <i>Koyu</i> .	220245. <i>Mitsuyu</i> .

**220246. EUCALYPTUS NIPHOPHILA Maiden & Blakely. Myrtaceae.**

From Australia. Seeds presented by Director-General, Forestry and Timber Bureau, Canberra. Received Aug. 4, 1954.

S.3483. Collected at Mount Koscuisko.

**220247 and 220248.**

From Sicily. Seeds presented by the Istituto Di Agronomia General E Coltivazioni Erbacee, University of Palermo, Palermo. Received Aug. 4, 1954.

220247. *MEDICAGO INTERTEXTA* (L.) Mill. Fabaceae.

220248. *SORGHUM VULGARE* Pers. Poaceae.

*Saturus.*

**220249. PHASEOLUS TRINERVIUS** Heyne. Fabaceae.

From Jamaica. Seeds presented by the Department of Agriculture, Kingston. Received Oct. 4, 1954.

**220250. CARTHAMUS TINCTORIUS** L. Asteraceae. **Safflower.**

From Pakistan. Seeds presented by the Oilseed Section, Punjab Agricultural College and Research Institute, Lyallpur. Received Aug. 5, 1954.

**220251 to 220271. ORYZA SATIVA** L. Poaceae. **Rice.**

From Malaya. Seeds presented by the State Agricultural Officers, Selangor. Received Aug. 6, 1954.

220251. *Acheh Puteh* G.S. No. 149.

220252. *Anak Didek* G.S. No. 158.

220253. *Haji Haroun* G.S. No. 154.

220254. *Kontor* G.S. No. 157.

220255. *Machang* G.S. No. 151.

220256. *Mayang Ebos 80* G.S. No. 156.

220257. *Mayang Sabatil* G.S. No. 159.

220258. *Mayang Sagumpal* G.S. No. 146.

220259. *Milek Kuning 3* G.S. No. 145.

220260. *Morak Sepilai* G.S. No. 148.

220261. *Nachin 11* G.S. No. 144.

220262. *Nalong Telor* G.S. No. 147.

220263. *Radin China 4* G.S. No. 155.

220264. *Radin Siak 34* G.S. No. 161.

220265. *Reyong 6* G.S. No. 141.

220266. *Seraup Kechil 36* G.S. No. 153.

220267. *Serendah* G.S. No. 152.

220268. *Serendah Kuning* G.S. No. 150.

220269. *Siam 29* G.S. No. 143.

220270. *Subang Intan* G.S. No. 160.

220271. *Taichu 65* G.S. No. 142.

**220272. BOTHRIOCHLOA ISCHAEMUM** (L.) Keng. Poaceae.

From Afghanistan. Stolons collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 27, 1954.

728-R. Khairkana Pass, Kabul. Altitude 6,500 feet. Well-grazed perennial bunchgrass.

**220273. CEPHALANTHUS NATALENSIS Oliv. Rubiaceae.**

From the Union of South Africa. Seeds presented by J. Leslie Parkhouse, Wonderhoogte Farm, Utrecht, Natal. Received Aug. 9, 1954.

*Mfomfo*. A shrub 5-8 feet high, with dark-green ovate opposite leaves about 1½ inches long, small greenish flowers, and edible, scarlet and white strawberry-like fruits up to 1 inch in diameter. Native to Natal, South Africa.

**220274 to 220309.**

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 9, 1954.

**220274. AEGILOPS CRASSA Boiss. Poaceae.**

No. 184. Upper Tarnak Valley, Kandahar. May 27, 1954.

**220275. AELUROPUS sp. Poaceae.**

No. 316. Seventy miles northeast of Kandahar. June 6, 1954. Altitude 4,800 feet. Short, well-grazed, salt-resistant grass.

**220276 and 220277. ALLIUM CEPA L. Liliaceae. Onion.**

220276. No. 81. *Piaz*. Market, Girishk. May 17, 1954.

220277. No. 193. Upper Tarnak Valley, Kandahar. Growing in an irrigated wheat field.

**220278. ALLIUM sp.**

No. 210. Kajakai Dam, Helmand River, Kandahar. May 29, 1954. Common wild onion on dry rocky hillside.

**220279. AMMI COPTICUM L. Apiaceae.**

No. 87. *Jowani*. Market, Girishk. May 17, 1954. Seeds used in tea for stomach ache.

**220280. ASTRAGALUS sp. Fabaceae.**

No. 61. Seraj Desert, south of Girishk, Kandahar. May 16, 1954. Small annual, said to be drought-resistant.

**220281. BRASSICA RAPA L. Brassicaceae. Turnip.**

No. 30. Market, Kabul. May 12, 1954.

**220282. BRASSICA sp.**

No. 37. *Owrie*. Market, Kabul. May 12, 1954. Used as a green vegetable.

**220283. CARTHAMUS TINCTORIUS L. Asteraceae. Safflower.**

No. 34. *Maswar*. Market, Kabul. May 12, 1954.

**220284. CERCIS SILIQUASTRUM L. Caesalpiniaceae. Judas-tree.**

No. 15. Kings Garden, Paghman, Kabul. May 9, 1954. Altitude 6,500 feet.

**220285. DAUCUS CAROTA L. Apiaceae. Carrot.**

No. 288. *Zardak*. Market, Kandahar. June 2, 1954.

**220286. EREMURUS sp. Liliaceae.**

No. 186. Upper Tarnak Valley, Kandahar. May 27, 1954. Roots used for glue.

**220287. LALLEMANTIA ROYLEANA Benth. Menthaceae.**

No. 279. *Malangan*. Market, Kandahar. June 2, 1954. Seeds sold for medicine.



## 220274 to 220309—Continued

220288. *LATHYRUS APHACA* L. Fabaceae.  
No. 295. Kandahar. June 2, 1954. Growing in an irrigated wheat field.
220289. *LATHYRUS* sp.  
No. 71. Chal-i-Ztar, south of Girishk, Kandahar. May 18, 1954.
220290. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato.  
No. 276. *Badenjanromie*. Market, Kandahar. June 2, 1954.
220291. *HORDEUM* sp. Poaceae. Barley.  
No. 211. Kajakai Dam, Helmand River, Kandahar. May 29, 1954.
220292. *IMPERATA CYLINDRICA* (L.) Beauv. Poaceae.  
No. 64. Qala Bist, south of Girishk, Kandahar. May 18, 1954. Altitude 2,000 feet. Growing on land containing 3–5 percent salt.
220293. *IMPERATA* sp.  
No. 135. Arghandab River Crossing, west of Kandahar. May 21, 1954.
220294. *IRIS SISYRINCHIUM* L. Iridaceae.  
No. 103. Tarnak Valley, Kandahar. May 19, 1954. Flower blue plant up to 10 inches high.
- 220295 and 220296. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.  
220295. No. 98. *Saib*. Grown near Girishk. May 17, 1954. Small red apple up to 2 inches in diameter. Grown under irrigation.  
220296. No. 100. *Saib*. Market, Girishk. May 17, 1954.
220297. *MEDICAGO HISPIDA* Gaertn. Fabaceae. Burclover.  
No. 70. Chal-i-Ztar, south of Girishk, Kandahar. May 18, 1954.
- 220298 to 220301. *MEDICAGO SATIVA* L. Alfalfa.  
220298. No. 39. *Rishqah*. Market, Kabul. May 12, 1954. Green forage.  
220299. No. 83. *Rishqah*. Market, Girishk. May 17, 1954.  
220300. No. 38. *Rishqah*. Market, Kabul. May 12, 1954. Used as green forage.  
220301. No. 275. *Shabdar*. Market, Kandahar. June 2, 1954.
220302. *MELILOTUS INDICA* (L.) All. Fabaceae. Sweetclover.  
No. 199. Arghandab Dam, Kandahar. May 28, 1954.
- 220303 to 220305. *PHASEOLUS AUREUS* Roxb. Fabaceae. Mung bean.  
220303. No. 154. *Mash*. Nad-i-Ali, Training Center, Helmand Valley Authority, Girishk. May 23, 1954.  
220304. No. 285. *Mash*. Market, Kandahar. June 2, 1954.  
220305. No. 382. *Mash*. Pul-i-Khumri, Kataghan. June 19, 1954.
220306. *PHASEOLUS MUNGO* L. Urd.  
No. 272. *Mash-Siah*. Market, Kandahar. June 2, 1954.
- 220307 to 220309. *RAPHANUS SATIVUS* L. Brassicaceae. Radish.  
220307. No. 7. Market, Kabul. May 4, 1954.  
220308. No. 31. *Turbak*. Market, Kabul. May 12, 1954. Medicinal oil made from seeds.  
220309. No. 273. *Torob*. Market, Kandahar. June 2, 1954.



## 220310 to 220324.

From Pakistan. Cuttings presented by D. T. Painter, Foreign Operations Administration, American Consulate General, Lahore. Received Aug. 10, 1954.

220310 to 220312. CITRUS AURANTIFOLIA (Christm.) Swingle. Rutaceae.  
Lime.

220310. *Kaghzi*.

220311. (Unnamed.)

220312. (Unnamed.)

220313. CITRUS AURANTIUM L. Seville orange.  
*Gadadehi*.

220314 and 220315. CITRUS LIMON (L.) Burm. f. Lemon.

220314. *Diwana Khotti*.

220315. Seedless.

220316. CITRUS PARADISI Macfad. Grapefruit.

220317 to 220322. CITRUS SINENSIS (L.) Osbeck. Orange.

220317. *Callibrian*. 220320. *Hari Singh*.

220318. *Gangapur*. 220321. *Montgomery*.

220319. *Gujranwala*. 220322. *Sardarwala*.

220323. CITRUS.

*Atoni*.

220324. GREWIA ASIATICA L. Tiliaceae.

## 220325. HAEMANTHUS sp. Amaryllidaceae.

From the Union of South Africa. Plant growing at the United States Plant Introduction Gardens, Glenn Dale, Md. Numbered Aug. 11, 1954. Originally collected by W. H. Hodge (A-143) between Genadendal and Caledon, Cape Province, May 1, 1951.

## 220326 to 220358.

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 11, 1954.

220326. AEGILOPS SQUARROSA L. Poaceae.

No. 416. Between Baghlan and Kunduz, Kataghan. June 20, 1954. Altitude 1,700 feet. Small annual grass.

220327 to 220330. AEGILOPS TRIUNCIALIS L.

220327. No. 417. Between Baghlan and Kunduz, Kataghan. June 20, 1954. Altitude 1,700 feet. Small annual grass.

220328. No. 476. Between Kunduz and Mazar-i-Sharif. June 24, 1954. Altitude 1,500-2,300 feet.

220329. No. 548. Twenty miles southwest of Maimana. June 29, 1954. Altitude 3,000 feet.

220330. No. 549. Twenty miles southwest of Maimana. June 29, 1954. Altitude 3,000 feet. Similar to P.I. 220329, but much larger.

220331. AEGILOPS SQUARROSA L.

No. 552. Forty miles southwest of Maimana. June 29, 1954.

## 220326 to 220358—Continued

220332. *AEGILOPS TRIUNCIALIS* L.

No. 606. Herat. July 4, 1954. Altitude 3,200 feet. Growing in dry sandy loam.

220333. *HENRARDIA PERSICA* (Boiss.) Hubb. Poaceae.

No. 634. Fifty miles south of Herat. July 5, 1954. Altitude 4,600 feet. Very small grass growing on a dry rocky hill in pockets of sandy loam.

220334. *CREPIS* sp. Cichoreaceae.

No. 563. Fifty miles south of Murghab, Herat. July 1, 1954.

220335 to 220337. *CUCUMIS MELO* L. Cucurbitaceae. Muskmelon.

220335. No. 423. Kunduz, Kataghan. June 20, 1954. Fruit 1-1½ feet long and 6-8 inches in diameter. Skin white with green stripes; flesh white.

220336. No. 424. Kunduz, Kataghan. June 20, 1954. Fruit 1-1½ feet long and 6-8 inches in diameter. Skin white with green stripes; flesh white.

220337. No. 540. *Kherbozeh*. Market, Andkhui, Maimana. June 28, 1954. Altitude 1,200 feet. Round green melon with white flesh.

220338. *CUCUMIS SATIVUS* L. Cucumber.

No. 457. *Khiar*. Market, Kunduz. June 23, 1954.

220339. *HORDEUM* sp. Poaceae. Barley.

No. 341. Doabi, Kabul. June 16, 1954. Altitude 5,300 feet. Wild barley on rocky slope.

220340. *HORDEUM* sp.

No. 361. *Jaw*. Doshi, Kataghan. June 17, 1954. Altitude 3,100 feet.

220341. *HORDEUM* sp.

No. 401. Baghlan, Kataghan. June 20, 1954. Altitude 2,000 feet.

220342. *IRIS* sp. Iridaceae.

No. 670. Thirty miles northeast of Kalat, Kandahar. July 10, 1954. Altitude 6,000 feet. Flowers pale blue to white; Japanese-type. Common on desert, altitude 3,000-7,000 feet.

220343 to 220346. *LINUM USITATISSIMUM* L. Linaceae. Flax.

220343. No. 422. *Zegher*. Kunduz, Kataghan. June 20, 1954. Altitude 1,600 feet. Used to produce oil.

220344. No. 426. *Zegher*. Market, Kunduz. June 21, 1954. Used to produce oil.

220345. No. 427. *Zegher*. Market, Kunduz. June 21, 1954. Used to produce oil.

220346. No. 536. *Zegher*. Market, Andkhui, Maimana. June 28, 1954. Altitude 1,200 feet. Used to produce oil.

220347 to 220358. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.

220347. No. 331. Nimakao, Kabul. June 15, 1954.

220348. No. 347. Tala-Barfaq, Kataghan. June 16, 1954. Altitude 4,500 feet.

220349. No. 348. Tala-Barfaq, Kataghan. June 16, 1954. Altitude 4,500 feet.

220350. No. 360. *Gandum*. Doshi, Kataghan. June 17, 1954. Altitude 3,100 feet.

**220326 to 220358—Continued****220347 to 220358—Continued**

220351. No. 391. *Gandum*. Baghlan, Kataghan. June 20, 1954. Altitude 2,000 feet.
220352. No. 393. *Gandum*. Baghlan, Kataghan. June 20, 1954. Altitude 2,000 feet.
220353. No. 395. *Gandum*. Baghlan, Kataghan. June 20, 1954. Altitude 2,000 feet.
220354. No. 396. *Gandum*. Baghlan, Kataghan. June 20, 1954. Altitude 2,000 feet.
220355. No. 518. *Gandum*. AgChah, Mazar-i-Sharif, June 27, 1954. Altitude 1,100 feet. Mixed brown and white wheat; up to 2½ feet in height.
220356. No. 520. *Gandum*. Shibarghan, Mazar-i-Sharif. June 27, 1954. Altitude 1,400 feet.
220357. No. 598. *Gandum-i-Siahkltoshah*. Herat. July 3, 1954. Altitude 3,200 feet. Winter wheat, reported to make the best bread.
220358. No. 679. *Gandum-i-Lalmi*. Market, Ghazni. July 11, 1954. Altitude 7,000 feet.

**220359. PHALARIS ARUNDINACEA L. Poaceae. Reed canary grass.**

From Canada. Seeds presented by the Dominion Experimental Station, Lacombe. Received Aug. 5, 1954.

**220360 to 220364.**

From France. Seeds presented by A. Angladette, Directeur de la Section Technique D'Agriculture Tropicale, Paris. Received Aug. 12, 1954.

220360. *ASPARAGUS ACUTIFOLIUS* L. Convallariaceae.

220361. *ASPARAGUS MARITIMUS* Mill.

220362. *ASPARAGUS PLUMOSUS* Baker.

220363 and 220364. *ASPARAGUS SPRENGERI* Regel. Sprenger asparagus.

220363. No. 1.

220364. No. 2.

**220365. ORYZA SATIVA L. Poaceae. Rice.**

From Nicaragua. Seeds presented by R. M. Hooker, San Pedro, Calif. Received Aug. 13, 1954.

**220366. HYPARRHENIA RUFA (Nees) Stapf. Poaceae.**

Jaragua grass.

From Brazil. Seeds presented by Carlos Roderbourg, Dierberger Agro Commercial Ltd., São Paulo. Received Aug. 13, 1954.

**220367 to 220406.**

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 13, 1954.

220367. *ARISTIDA* sp. Poaceae.

No. 479. Twenty-five miles west of Kunduz, Kataghan. June 24, 1954. Altitude 1,600 feet. Perennial bunchgrass on dry rocky slope.

220368. *ARISTIDA* sp.

No. 523. Shibarghan, Mazar-i-Sharif. June 27, 1954. Altitude 1,400 feet. Perennial desert bunchgrass.



**220367 to 220406—Continued****220369. ARISTIDA sp.**

No. 524. Shibarghan, Mazar-i-Sharif. June 27, 1954. Altitude 1,400 feet. Tall perennial bunchgrass acting as a sand binder on drifting sands.

**220370. ARISTIDA sp.**

No. 525. Six miles east of Andkhui, Maimana. June 27, 1954. Short, desert, perennial bunchgrass.

**220371. ASTRAGALUS sp. Fabaceae.**

No. 480. Twenty-three miles west of Kunduz, Kataghan. June 24, 1954. Altitude 1,600 feet. Dry sandy slope.

**220372 to 220374. AVENA SATIVA L. Poaceae. Oats.**

220372. No. 346. Doabi. Kabul. June 16, 1954. Altitude 5,000 feet.

220373. No. 352. Girdab, Kataghan. June 17, 1954. Altitude 3,800 feet.

220374. No. 418. Road between Baghlan and Kunduz, Kataghan. June 20, 1954. Altitude 1,700 feet.

**220375. BROMUS sp. Poaceae.**

No. 399. Baghlan, Kataghan. June 20, 1954. Altitude 2,000 feet.

**220376. BROMUS sp.**

No. 413. Road between Baghlan and Kunduz, Kataghan. June 20, 1954. Altitude 1,700 feet. Short, compact-headed grass.

**220377 to 220379. BROMUS OXYDON Schrenk.**

220377. No. 414. Road between Baghlan and Kunduz, Kataghan. June 20, 1954. Altitude 1,700 feet. Loose spreading grass up to 2 feet in height.

220378. No. 440. Kunduz. June 23, 1954. Altitude 1,400 feet.

220379. No. 472. Twelve miles west of Kunduz, Kataghan. June 24, 1954. Altitude 2,300 feet. Common grass in the dry hills south of the Oxus River.

**220380. BROMUS sp.**

No. 485. Shadian, Mazar-i-Sharif. June 24, 1954. Altitude 1,500 feet.

**220381. BROMUS sp.**

No. 558. Six miles west of Shibarghan, Mazar-i-Sharif. July 1, 1954. Short desert bromus growing to a height of 6 inches.

**220382. CANNABIS SATIVA L. Urticaceae. Hemp.**

No. 666. *Bangdanah*. Market, Kandahar. July 8, 1954. Altitude 3,200 feet. Seeds planted in spring and harvested in fall. Dried leaves for Hashiah, usually smoked in a Hubel-Bubble pipe.

**220383 to 220385. CYNODON DACTYLON (L.) Pers. Poaceae. Bermuda grass.**

220383. No. 405. Baghlan, Kataghan. June 20, 1954. Altitude 2,000 feet.

220384. No. 546. Twenty miles south of Maimana. June 29, 1954. Altitude 3,000 feet. Very dry, sandy silt loam.

220385. No. 592. Herat. July 3, 1954. Altitude 3,200 feet. Dry rocky soil.

**220386. EREMURUS sp. Liliaceae.**

No. 571. South of Qual Nau, Herat. July 2, 1954. Altitude 7,000 feet. Leaves used for greens in spring and the roots used for glue.



## 220367 to 220406—Continued

220387. *MELILOTUS INDICA* (L.) All. Fabaceae.

No. 72. *Chal-i-Ztar*, south of Girishk, Kandahar. May 18, 1954. Yellow-flowered sweet clover in irrigated wheat field.

220388 and 220389. *MORUS ALBA* L. Moraceae.

White mulberry.

220388. No. 497. *Shir-Toot*. Mazar-i-Sharif. June 26, 1954. Altitude 1,500 feet. White mulberries sold dried in the market.

220389. No. 699. *Shir-Toot*. Market, Kabul. July 14, 1954. Altitude 6,000 feet. White mulberry.

220390. *MORUS NIGRA* L. Moraceae.

Black mulberry.

No. 467. *Shah-Toot*. Tala-Barfag, Kataghan. June 24, 1954. Altitude 4,500 feet. Excellent-flavored black mulberry, fruits very large, sweet and juicy.

220391. *MORUS* sp.

No. 359. *Toot*. Doshi, Kataghan. June 17, 1954. Altitude 3,100 feet.

220392 and 220393. *PANICUM MILIACEUM* L. Poaceae.

Proso.

220392. No. 512. *Arzen*. Mazar-i-Sharif. June 26, 1954. Altitude 1,500 feet. Sold for bird seed in the market.

220393. No. 538. *Arzen*. Market, Andkhui, Maimana. June 28, 1954. Sold for bird seed.

220394. *PAPAVER SOMNIFERUM* L. Papaveraceae.

Opium poppy.

No. 505. *Khash-Khash*. Mazar-i-Sharif. June 26, 1954. Used both for oil and opium.

220395 to 220398. *PRUNUS ARMENIACA* L. Amygdalaceae.

Apricot.

220395. No. 356. Market, Doshi, Kataghan. June 17, 1954. Altitude 3,100 feet.

220396. No. 364. Market, Pul-i-Khumri, Kataghan. June 19, 1954. Fruit and flesh yellow.

220397. No. 692. *Zardaloo-i-Amiri*. Market, Kabul. July 14, 1954. Altitude 6,000 feet. Fruit greenish with red blush; 2 inches in diameter.

220398. No. 693. *Zardaloo-i-Ashtaqi*. Market, Kabul. July 14, 1954. Altitude 6,000 feet. Fruit smooth, orange-yellow with red blush, 1½ inches in diameter.

220399. *PRUNUS AVIUM* L.

Sweet cherry.

No. 322. *Gilas Estalef*. Market, Kabul. June 14, 1954. Altitude 6,000 feet.

220400. *PRUNUS DOMESTICA* L.

Common plum.

No. 323. *Aloochah*. Market, Kabul. June 14, 1954. Fruit dark, sweet; brought from Jalalabad.

220401 and 220402. *SECALE CEREALE* L. Poaceae.

Rye.

220401. No. 332. *Nimakao*, Kabul. June 14, 1954. Altitude 5,500 feet. Early rye, growing in irrigated wheat field.

220402. No. 683. Twenty-three miles north of Ghazni. July 11, 1954. Altitude 8,000 feet. Growing wild in an irrigated wheat field.

220403 and 220404. *SESAMUM INDICUM* L. Pedaliaceae.

Sesame.

220403. No. 428. *Konjet*. Market, Kunduz. June 21, 1954. Grown for oil on dry farmland.

220404. Market, Andkhui, Maimana. June 28, 1954. Altitude 1,200 feet. Seed used for oil.

**220367 to 220406—Continued**220405. *SORGHUM VULGARE* Pers. Poaceae.

No. 655. Six miles west of Kandahar. July 7, 1954. Altitude 3,000 feet.

220406. *ZEA MAYS* L. Poaceae.No. 357. *Jawari*. Doshi, Kataghan. June 17, 1954. Altitude 3,100 feet. Irrigated.**220407. GREWIA ASIATICA** L. Tiliaceae.

From Pakistan. Seeds presented by D. T. Painter, Foreign Operations Administration, American Consulate, Lahore. Received Aug. 15, 1954.

**220408. ORYZA SATIVA** L. Poaceae.

Rice.

From Ceylon. Seeds presented by the Rice Research Station, Batalagoda. Received Aug. 16, 1954.

**220409 to 220412.**

From Puerto Rico. Cuttings presented by Harold F. Winters, Federal Experiment Station, Mayaguez. Received Aug. 16, 1954.

220409 and 220410. *COCHLOSPERMUM VITIFOLIUM* (Willd.) Spreng.  
Cochlospermaceae.

220409. Single flower.

220410. Double flower.

220411. *PACHIRA FASTUOSA* (DC.) Decaisne. Bombacaceae.220412. *PIPTADENIA PEREGRINA* (L.) Benth. Mimosaceae.**220413 to 220415. ORYZA SATIVA** L. Poaceae.

Rice.

From Taiwan. Seeds presented by an unknown donor, Tainan. Received Aug. 17, 1954.

220413. *Kaosiung* No. 18.220414. *Leou Jan*.220415. *White Glume*.**220416 to 220424. ORYZA SATIVA** L. Poaceae.

Rice.

From the Philippines. Seeds presented by D. L. Umali, College, Laguna. Received Aug. 17, 1954.

220416. *Carti* No. 42.220421. *Kinandang Puti*.220417. *Fortuna*.220422. *Macapilay Pusa*.220418. *Guinata*.220423. *Magasanaya*.220419. *Inintiw Strain 107*.220424. *Palawan*.220420. *Kinanda*.**220425 to 220483. TRITICUM AESTIVUM** L. Poaceae.

Common wheat.

From Egypt. Seeds presented by the Ministry of Agriculture, Plant Breeding Section, Giza Orman. Received Aug. 17, 1954.

220425. *Baladi 116*.220430. *Giza 135*.220426. *Dakar 49*.220431. *Mokhtar*.220427. *Dakar 52*.

220432. Line 950.

220428. *Giza 139*.

220433. Line 1167-68.

220429. *Giza 141*.

220434. Line 1167-109.

**220425 to 220483—Continued**

220435. Line 1168-138.	220460. Line 1260-554.
220436. Line 1169-168.	220461. Line 1260-558.
220437. Line 1169-187.	220462. Line 1262-21.
220438. Line 1172-256.	220463. Line 1262-26.
220439. Line 1172-261.	220464. Line 1263-31.
220440. Line 1173-291.	220465. Line 1263-33.
220441. Line 1204-366.	220466. Line 1266-58.
220442. Line 1231-3.	220467. Line 1266-61.
220443. Line 1231-19.	220468. Line 1266-63.
220444. Line 1231-23.	220469. Line 1267-71.
220445. Line 1231-33.	220470. Line 1271-86.
220446. Line 1238-38.	220471. Line 1271-91.
220447. Line 1240-213.	220472. Line 1274-106.
220448. Line 1240-218.	220473. Line 1274-108.
220449. Line 1240-219.	220474. Line 1274-111.
220450. Line 1240-278.	220475. Line 1280-161.
220451. Line 1241-336.	220476. Line 1280-168.
220452. Line 1241-337.	220477. Line 1280-171.
220453. Line 1241-379.	220478. Line 1281-176.
220454. Line 1244-423.	220479. Line 1282-226.
220455. Line 1245-462.	220480. Line 1282-238.
220456. Line 1247-492.	220481. Line 1282-241.
220457. Line 1248-527.	220482. Line 1288-243.
220458. Line 1251-551.	220483. Line 1288-258.
220459. Line 1251-552.	

**220484 to 220486. ORYZA SATIVA L. Poaceae.****Rice.**

From Jamaica. Seeds presented by James F. Gore, Half-Way Tree Post Office.  
Received Aug. 18, 1954.

220484. No. 1.

220485. No. 2.

220486. No. 3.

**220487 and 220488.**

From Ethiopia. Seeds presented by F. T. Simoons, University of California,  
Berkeley, California. Received Aug. 19, 1954.

220487. *Gossypium* sp. Malvaceae.**Cotton.**

Yicaho village, Quara District, Begemdic.

220488. *Gossypium* sp.

Korjamus village, south of Metemma.

**220489 to 220491. CHENOPODIUM QUINOA Willd. Chenopodiaceae.**

From Peru. Seeds presented by A. F. Swanson, Institute of Inter-American  
Affairs, Lima. Received Aug. 19, 1954.

220489. Sweet, white.



**220489 to 220491—Continued**

220490. White Chuciuta.

220491. White royal.

**220492 to 220494.**

From Indonesia. Cuttings and seeds presented by F. P. Hubert, United States Operations Mission, Djakarta. Collected from General Agricultural Research Station, Bogor. Received Aug. 19, 1954.

220492. CINNAMOMUM CASSIA Willd. Lauraceae. Cassia.  
Cuttings.

220493. (Undetermined.)  
Cuttings.

220494. CINNAMOMUM CASSIA Willd. Lauraceae. Cassia.  
Seeds.

**220495. GENISTA RAETAM Forsk. Fabaceae.**

From Libya. Seeds presented by Michael Calli, United States Operations Mission, Tripoli. Received Aug. 23, 1954.

**220496. VACCINIUM OXYCOCCOS L. Vacciniaceae. Cranberry.**

From the Netherlands. Plants presented by the Institute for Horticultural Plant Breeding, Wageningen. Received Aug. 23, 1954.

**220497 to 220555.**

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 19, 1954.

220497. AGROPYRON INTERMEDIUM (Host.) Beauv. Poaceae.

No. 554. Forty miles south of Maimana. June 29, 1954. Altitude 4,000 feet. Dry sandy silt loam.

220498. AGROPYRON TRICHOPHORUM (Link) Richt.

No. 587. North of Herat. July 2, 1954. Altitude 5,700 feet.

220499. ALLIUM PORRUM L. Liliaceae. Leek.

No. 386. *Gandenah*. Pul-i-Khumri, Kataghan. June 19, 1954.

220500 to 220502. ALLIUM CEPA L. Onion.

220500. No. 455. *Piaz*. Market, Kunduz. June 23, 1954.

220501. No. 507. *Piaz*. Mazar-i-Sharif. June 26, 1954. Altitude 1,500 feet.

220502. No. 621. *Piaz*. Market, Herat. July 4, 1954. Altitude 3,200 feet.

220503. ALLIUM PORRUM L. Leek.

No. 454. *Gandanah*. Market, Kunduz. June 23, 1954.

220504. ASTRAGALUS sp. Fabaceae.

No. 636. Fifty miles south of Herat. July 5, 1954. Altitude 4,600 feet. Salt-resistant legume, yellow-flowered. Grazed.

220505. AVENA sp. Poaceae.

No. 528. Hotel Grounds Andkhui. June 28, 1954. Altitude 1,200 feet.

220506 to 220509. BETA VULGARIS L. Chenopodiaceae. Beet.

220506. No. 371. *Lablabu*. Pul-i-Khumri, Kataghan. June 19, 1954.



## 220497 to 220555—Continued

## 220506 to 220509—Continued

220507. No. 407. Baghlan Sugar Company, Baghlan, Kataghan. June 20, 1954. Altitude 2,000 feet.
220508. No. 458. *Lablaboo*. Market, Kunduz. June 23, 1954.
220509. No. 617. *Lablaboo*. Market, Herat. July 4, 1954. Used as a vegetable.
220510. *BRASSICA RAPA* L. Brassicaceae. Turnip.  
No. 367. *Shalgham*. Market, Pul-i-Khumri, Kataghan. June 19, 1954.
220511. *BRASSICA* sp.  
No. 387. *Awri*. Pul-i-Khumri, Kataghan. June 19, 1954.
220512. *BRASSICA* sp.  
No. 510. *Torob*. Mazar-i-Sharif. June 26, 1954.
220513. *BROMUS* sp. Poaceae.  
No. 533. Hotel grounds, Andkhui, Maimana. June 28, 1954. Annual; plant 2 feet high; loose panicles.
220514. *BROMUS SCOPARIUS* L.  
No. 557. Six miles north of Murghab, Herat. June 29, 1954. Altitude 2,300 feet. Annual; upright bunchgrass; tight heads.
220515. *CUCUMIS MELO* L. Cucurbitaceae. Muskmelon.  
No. 646. *Dastanboo*. Market, Girishk, Kandahar. July 6, 1954. Altitude 2,500 feet. Fruit round, sweet, yellow with dark-orange stripes; flesh white.
220516. *CYMBOPOGON* sp. Poaceae.  
No. 602. Herat. July 4, 1954. Perennial bunchgrass. Infusion of leaves taken internally for fever.
220517. *DAUCUS CAROTA* L. Apiaceae. Carrot.  
No. 504. *Zardak*. Mazar-i-Sharif. June 26, 1954. Altitude 1,500 feet.
220518. *ECHINOCHLOA CRUSGALLI* (L.) Beauv. Poaceae. Barnyard grass.  
No. 589. Hotel yard, Herat. July 3, 1954. Altitude 3,200 feet.
220519. *FERULA* sp. Apiaceae.  
No. 680. *Gandah*. Fifteen miles north of Ghazni. July 11, 1954. Altitude 8,200 feet. Seeds produce considerable amount of oil.
220520. *HORDEUM* sp. Poaceae. Barley.  
No. 412. Road between Baghlan and Kunduz, Kataghan. June 20, 1954. Altitude 1,700 feet. Small annual grass.
220521. *HORDEUM* sp.  
No. 421. Kunduz, Kataghan. June 20, 1954. Altitude 1,600 feet. Dark, wild barley.
220522. *HORDEUM* sp.  
No. 522. Shibarghan, Mazar-i-Sharif. June 27, 1954. Small wild barley.
220523. *HORDEUM* sp.  
No. 526. Andkhui, Maimana. June 27, 1954. Altitude 1,200 feet. Wild barley; up to 3 feet in height.
220524. *LACTUCA SATIVA* L. Cichoriaceae. Lettuce.  
No. 376. *Kahoo*. Pul-i-Khumri, Kataghan. June 19, 1954.

## 220497 to 220555—Continued

- 220525 to 220527. *LOLIUM TEMULENTUM* L. Poaceae. Darnel.  
 220525. No. 398. Baghlan, Kataghan. June 20, 1954. Altitude 2,000 feet. Grows to 3 feet in height.  
 220526. No. 406. Baghlan, Kataghan. June 20, 1954. Altitude 2,000 feet.  
 220527. No. 550. Twenty miles southwest of Maimana. June 29, 1954. Altitude 3,000 feet.
220528. *LOLIUM* sp.  
 No. 555. Sixty miles southwest of Maimana. June 29, 1954. Altitude 3,200 feet.
220529. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.  
 No. 468. *Saib*. Kunduz, Kataghan. June 24, 1954. Altitude 1,500 feet. Fruit red with firm white flesh, up to 2 inches in diameter; flavor fair.
- 220530 and 220531. *MEDICAGO SATIVA* L. Fabaceae. Alfalfa.  
 220530. No. 513. *Rishqah*. Mazar-i-Sharif. June 26, 1954. Altitude 1,500 feet.  
 220531. No. 515. Qual Nau, Herat. July 2, 1954. Altitude 3,000 feet.
220532. *MELILOTUS INDICA* (L.) All. Fabaceae. Sweetclover.  
 No. 435. Kunduz. June 22, 1954. Altitude 1,500 feet.
220533. *MORUS* sp. Moraceae. Mulberry.  
 No. 496. *Toot-i-Abrahamkhani*. Mazar-i-Sharif. June 26, 1954. Altitude 1,500 feet. Purple and white dried mulberries.
220534. *MORUS* sp.  
 No. 698. *Toot-i-Abrahimi*. Market in Kabul. July 14, 1954. Altitude 6,000 feet. Fruit dark purple, sweet.
- 220535 to 220538. *PANICUM MILIACEUM* L. Poaceae. Proso.  
 220535. No. 365. *Gal*. Market, Pul-i-Khumri, Kataghan. June 19, 1954. Grown for bird seed.  
 220536. No. 372. *Arzan*. Market, Pul-i-Khumri, Kataghan. June 19, 1954. Sold for bird seed.  
 220537. No. 402. Baghlan, Kataghan. June 20, 1954. Altitude 2,000 feet.  
 220538. No. 460. *Arzan*. Market, Kunduz. June 23, 1954. Grown for bird seed.
- 220539 and 220540. *PAPAVER SOMNIFERUM* L. Papaveraceae. Opium poppy.  
 220539. No. 385. *Khash-Khash*. Pul-i-Khumri, Kataghan. June 19, 1954. Seed used for oil.  
 220540. No. 456. *Khash-Khash*. Market, Kunduz. June 23, 1954. Seed used for oil.
220541. *PRUNUS ARMENIACA* L. Amygdalaceae. Apricot.  
 No. 694. *Zardaloo*. Market, Kabul. July 14, 1954. Fruit 2 inches in diameter; flesh firm, white, sweet.
- 220542 and 220543. *RAPHANUS SATIVUS* L. Brassicaceae. Radish.  
 220542. No. 374. *Torob*. Pul-i-Khumri, Kataghan. June 19, 1954.  
 220543. No. 506. *Shelghem*. Mazar-i-Sharif. June 26, 1954. Altitude 1,500 feet.
220544. *SESAMUM INDICUM* L. Pedaliaceae. Sesame.  
 No. 502. *Kunjet*. Mazar-i-Sharif. June 26, 1954. Altitude 1,500 feet.

**220497 to 220555—Continued**

220545. *SETARIA ITALICA* (L.) Beauv. Poaceae. Foxtail millet.

No. 461. *Gal.* Market, Kunduz. June 23, 1954. Grown for bird seed.

220546. *SPINACIA OLERACEA* L. Chenopodiaceae. Spinach.

No. 366. *Palek.* Market, Pul-i-Khumri, Kataghan. June 19, 1954.

220547. *STIPA* sp. Poaceae.

No. 547. Twenty miles southwest of Maimana. June 29, 1954. Altitude 3,000 feet. Perennial bunchgrass on dry silt loam.

220548. *STIPA* sp.

No. 567. Eight miles south of Qal'eh Nau, Herat. July 2, 1954. Altitude 3,600 feet. Perennial bunchgrass on sandy silt loam.

220549. *STIPA* sp.

No. 585. North of Herat. July 2, 1954. Altitude 5,700 feet. Perennial bunchgrass.

220550. *TRIFOLIUM REPENS* L. Fabaceae. White clover.

No. 581. Zabzara Pass, north of Herat. July 2, 1954. Altitude 7,200 feet.

220551 to 220553. *TRIFOLIUM RESUPINATUM* L. Persian clover.

220551. No. 672. *Shabder.* Market, Ghazni. July 11, 1954. Altitude 7,000 feet. Used for green forage.

220552. No. 673. *Shabder.* Market, Ghazni. July 11, 1954. Altitude 7,000 feet. Used for green forage.

220553. No. 671. *Shabder-i-Garmah.* Market, Ghazni. July 11, 1954. Altitude 7,000 feet. Used for green forage.

220554 and 220555. *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae.

Fenugreek.

220554. No. 445. *Olbah.* Market, Kunduz. June 23, 1954.

220555. No. 665. *Olbah.* Market, Kandahar. July 8, 1954. Altitude 3,200 feet.

**220556 to 220559. RAUVOLFIA spp. Apocynaceae.**

From Cuba. Seeds presented by J. Acuña, Estacion Experimental Agrónomica, Santiago de las Vegas, Havana. Received Aug. 24, 1954.

220556. *RAUVOLFIA HIRSUTA* Jacq.

No. 3. Granja Escuela, Camaguey, Cuba. July 25, 1954. Shrub up to 3 feet in height.

220557. *RAUVOLFIA CUBANA* DC.

No. 1. Manacas, Las Villas. July 30, 1954. Small tree up to 7 feet in height.

220558. *RAUVOLFIA LAMARCKII* DC.

No. 2. Victoria de las Tunas, Oriente. July 25, 1954. Shrub up to 3 feet in height.

220559. *RAUVOLFIA TERNIFOLIA* H.B.K.

No. 4. From Laguna de Mateo, Pinar del Rio. July 31, 1954. Shrub up to 2 feet in height.



## 220560 to 220636.

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 24, 1954.

220560 to 220566. *AELUROPUS LITTORALIS* (Gouan) Parl. Poaceae.

220560. No. 444. Thirteen miles north of Kunduz. June 23, 1954. Altitude 1,400 feet. Small grass forming dense mats on damp river bottoms. Saline-resistant.

220561. No. 481. Thirty-five miles west of Kunduz, Kataghan. June 24, 1954. Altitude 1,500 feet. Saline-resistant grass.

220562. No. 483. Shadian, Mazar-i-Sharif. June 24, 1954. Altitude 1,500 feet. Edge of an irrigation ditch.

220563. No. 529. Hotel grounds, Andkhui. June 28, 1954. Altitude 1,200 feet. Saline-resistant.

220564. No. 639. Fifty-eight miles south of Herat. July 5, 1954. Altitude 4,600 feet. In small dry ravine in desert. Saline-resistant.

220565. No. 668. Nineteen miles northeast of Kandahar. July 9, 1954. Altitude 3,300 feet. Small perennial grass growing on the desert.

220566. No. 653. Seven miles west of Kandahar. July 7, 1954. Low grass spreading by rhizomes. Saline-resistant.

220567. *BRACHYPODIUM DISTACHYON* (L.) Beauv. Poaceae.

No. 329. Jabal-Us-Siraj, Kabul. June 14, 1954. Altitude 5,300 feet. Small annual on rocky hillside.

220568. *AGROPYRON BUONAPARTIS* (Spreng.) Dur. & Schinz. Poaceae.

No. 439. Kunduz. June 23, 1954. Altitude 1,400 feet. Grass of the dry rangeland.

220569. *ANAMIRTA COCCULUS* Wight. and Arn. Menispermaceae.

No. 95. *Merg-i-Mahi*. Market, Girishk. May 17, 1954. Used as a fish poison.

220570. *BOTHRIOCHLOA ISCHAEMUM* (L.) Keng. Poaceae.

No. 591. Herat. July 3, 1954. Altitude 3,200 feet. Perennial bunch-grass.

220571. *ARISTIDA* sp. Poaceae.

No. 351. Tala-Barfaq, Kataghan. June 16, 1954. Small grass in sandy stream bed.

220572. *ASTRAGALUS* sp. Fabaceae.

No. 473. Twenty miles west of Kunduz, Kataghan. June 24, 1954. Altitude 2,000 feet. Long podded.

220573. *BRASSICA* sp. Brassicaceae.

No. 508. *Karam*. Mazar-i-Sharif. June 26, 1954.

220574. *BROMUS* sp. Poaceae.

No. 327. Jabal-Us-Siraj, Kabul. June 14, 1954. Altitude 5,300 feet. Small grass with compact spikes.

220575 and 220576. *BROMUS TECTORUM* L.

220575. No. 325. Khairkana Pass, Kabul. June 14, 1954. Altitude 6,500 feet. Early annual grass.

220576. No. 337. Between Bulola and Doabi, Kabul. June 16, 1954. Altitude 7,000 feet.



## 220560 to 220636—Continued

## 220577 BROMUS sp.

No. 408. Baghlan, Kataghan. June 20, 1954. Altitude 2,000 feet. Stiff annual grass with upright heads.

## 220578. BROMUS TECTORUM L.

No. 342. Doabi, Kabul. June 16, 1954. Altitude 5,300 feet. Annual grass.

## 220579. BROMUS sp.

No. 441. Kunduz. June 23, 1954. Altitude 1,400 feet.

## 220580. BROMUS FIBROSUS Hack.

No. 576. Zabzara Pass, north of Herat. July 2, 1954. Altitude 7,800 feet. Coarse, perennial bunchgrass growing to a height of 2 feet.

## 220581. BROMUS sp.

No. 583. North of Herat. July 2, 1954. Altitude 6,300 feet. Annual grass on dry hillside. Purple tinted.

## 220582. BROMUS sp.

No. 652. Seven miles west of Kandahar. July 7, 1954. Altitude 3,000 feet. Annual grass growing to height of 2½ feet.

## 220583. BROMUS sp.

No. 684. Marghan. Twenty-eight miles north of Ghazni. July 11, 1954. Altitude 8,000 feet.

## 220584. CALAMAGROSTIS sp. Poaceae.

No. 343. Doabi, Kabul. June 16, 1954. Altitude 5,300 feet. Perennial bunchgrass.

## 220585. CALAMAGROSTIS sp.

No. 344. Doabi, Kabul. June 16, 1954. Perennial bunchgrass.

## 220586. CALAMAGROSTIS PSEUDOPHRAGMITES (Hall f.) Koel.

No. 562. Twenty miles south of Murghab, Herat. July 1, 1954. Altitude 2,200 feet. Perennial bunchgrass in a dense stand on alluvial flood plane of the Murghab River.

## 220587. CATABROSA AQUATICA Beauv. Poaceae.

No. 578. Zabzara Pass, north of Herat. July 2, 1954. Altitude 7,500 feet. Small pasture grass.

## 220588. CYNODON DACTYLON (L.) Pers. Poaceae. Bermuda grass.

No. 443. Thirteen miles north of Kunduz. June 23, 1954. Short grass. Saline-resistant.

## 220589. ELYMUS sp. Poaceae.

No. 328. Jabal-Us-Siraj, Kabul. June 15, 1954. Altitude 5,300 feet. Short annual with long twisted awns.

## 220590. ELYMUS sp.

No. 409. Baghlan, Kataghan. June 20, 1954. Altitude 1,700 feet. Annual grass with upright heads and long twisted awns.

## 220591. ELYMUS sp.

No. 419. Between Baghlan and Kunduz, Kataghan. June 20, 1954. Altitude 1,700 feet. Long twisted awned grass with long bracts. Annual.

## 220592. ELYMUS sp.

No. 584. North of Herat. July 2, 1954. Altitude 6,300 feet. Annual grass with long twisted awns.

## 220560 to 220636—Continued

220593. *ERIANTHUS* sp. Poaceae.

No. 560. Twenty-eight miles south of Murghab, Herat. July 1, 1954. Altitude 2,200 feet. Silky paniculate bunchgrass growing to a height of 6 feet, in alluvial bottom land along the Murghab River.

220594. *FESTUCA* sp.

No. 410. Between Baghlan and Kunduz, Kataghan. June 20, 1954. Altitude 1,700 feet. Small annual grass with long spikes.

220595. *HORDEUM* sp. Poaceae.

No. 714. Sixty miles north of Herat on south side of Pass. July 2, 1954. Altitude 7,200 feet.

220596. *IMPERATA* sp. Poaceae.

No. 353. Girdab, Kataghan. June 17, 1954. Altitude 3,800 feet. Small grass.

220597. *LOLIUM* sp. Poaceae.

No. 593. Herat. June 3, 1954. Altitude 3,200 feet.

220598. *MEDICAGO SATIVA* L. Fabaceae. Alfalfa.

No. 607. Herat. July 4, 1954. Blue flowered, growing on the edge of an irrigation ditch.

220599. *MELICA* sp. Poaceae.

No. 334. Nimakao, Kabul. June 14, 1954. Altitude 5,500 feet. Perennial bunchgrass.

220600 and 220601. *NIGELLA SATIVA* L. Ranunculaceae. Black cumin.

220600. No. 26. *Siah-Dana*. Market, Kabul. May 12, 1954. Seeds sprinkled on top of bread in baking.

220601. No. 459. *Siah-Danah*. Market, Kunduz. June 23, 1954. Seeds put on top of bread and also used as a source of oil for medicine.

220602. *ORYZOPSIS* sp. Poaceae.

No. 326. Jabal-Us-Siraj, Kabul. June 16, 1954.

220603. *ORYZOPSIS* sp.

No. 338. Between Bulola and Doabi, Kabul. June 16, 1954. Altitude 7,000 feet. Perennial bunchgrass.

220604. *PAPPOPHORUM* sp. Poaceae.

No. 339. Doabi, Kabul. June 16, 1954. Altitude 5,300 feet. Perennial bunchgrass on rocky slope.

220605. *PEGANUM HARAMALA* L. Zygophyllaceae.

No. 452. *Sepand*. Market, Kunduz. June 23, 1954.

220606. *PENNISETUM FLACCIDUM* Griset. Poaceae.

No. 355. Girdab, Kataghan. June 17, 1954. Perennial bunchgrass.

220607. *PHALARIS* sp. Poaceae.

No. 404. Baghlan, Kataghan. June 20, 1954. Altitude 2,000 feet.

220608. *PHALARIS* sp.

No. 411. Between Baghlan and Kunduz, Kataghan. June 20, 1954. Small annual grass.

220609. *PHALARIS* sp.

No. 531. Hotel grounds, Andkhui, Maimana. June 28, 1954. Altitude 1,200 feet. Loose-seeded annual grass.

## 220560 to 220636—Continued

220610. *ALOPECURUS ARUNDINACEUS* Poir. Poaceae.

No. 582. Zabzara, north of Herat. July 2, 1954. Altitude 7,200 feet. Perennial bunchgrass.

220611. *PLANTAGO OVATA* Forsk. Plantaginaceae.

No. 703. *Esfarzan*. Market, Kabul. July 14, 1954. Altitude 6,000 feet. Cattle forage when green.

220612. *PLANTAGO TIBETICA* Hook.f. & Thoms.

No. 648. *Bartang*. Market, Girishk, Kandahar. July 6, 1954. Altitude 2,500 feet.

220613 and 220614. *POA BULBOSA* L. Poaceae.

220613. No. 438. Kunduz. June 23, 1954. Altitude 1,400 feet.

220614. No. 530. Hotel grounds, Andkhui, Maimana. June 28, 1954. Altitude 1,200 feet. Grows to 1 foot in height.

220615. *POA* sp.

No. 579. Zabzara Pass, north of Herat. July 2, 1954. Altitude 7,500 feet. Small pasture grass.

220616. *POA* sp.

No. 580. Zabzara Pass, north of Herat. July 2, 1954. Altitude 7,200 feet. Perennial grass.

220617. *POLYPOGON* sp. Poaceae.

No. 345. Doabi, Kabul. June 16, 1954. Altitude 5,300 feet. Perennial bunchgrass.

220618. *POLYPOGON* sp.

No. 442. Fourteen miles north of Kunduz. June 23, 1954. Altitude 1,400 feet. Annual grass on a sandy bottom land. Saline-resistant.

220619. *POLYPOGON* sp.

No. 532. Hotel grounds, Andkhui, Maimana. June 28, 1954. Altitude 1,200 feet. Short grass growing to height of 1 foot.

220620. *POLYPOGON* sp.

No. 559. Twenty-eight miles south of Murghab, Herat. July 1, 1954. Altitude 2,200 feet. Short bunchgrass growing to height of 8 inches. On alluvial bottom land along the Murghab River.

220621. *POLYPOGON* sp.

No. 637. Fifty-eight miles south of Herat. July 5, 1954. Altitude 4,600 feet. Saline-resistant, annual bunchgrass.

220622. *PRUNUS DOMESTICA* L. Amygdalaceae. Common plum.

No. 645. Girishk, Kandahar. July 6, 1954. Altitude 2,500 feet. Green-skinned plum with green firm flesh.

220623. *PUCCINELLIA* sp. Poaceae.

No. 354. Girdab, Kataghan. June 17, 1954. Perennial bunchgrass at edge of an irrigation ditch.

220624. *PUCCINELLIA* sp.

No. 556. One hundred eighty miles southwest of Maimana. June 29, 1954. Altitude 2,500 feet. Perennial bunch-type grass.

220625. *PUCCINELLIA* sp.

No. 561. Twenty-eight miles south of Murghab, Herat. July 1, 1954. Altitude 2,200 feet. Small paniculate bunchgrass to 10 inches in height.



**220560 to 220636—Continued****220626. PUCCINELLIA sp.**

No. 640. Thirty-one miles south of Herat. July 5, 1954. Altitude 4,600 feet. Paniculate perennial bunchgrass, forming dense cover.

**220627. PUCCINELLIA sp.**

No. 669. Thirty-three miles northeast of Kalat, Kandahar. July 10, 1954. Altitude 6,000 feet. Perennial bunchgrass, fine leaves, growing to 1 foot in height.

**220628. SALVIA sp. Menthaceae.**

No. 707. *Kanewcheh*. Market, Kabul. July 14, 1954. Altitude 6,000 feet.

**220629. SCHISMUS sp. Poaceae.**

No. 324. Khairkana Pass, Kabul. June 15, 1954. Altitude 6,500 feet. Common in damper spots.

**220630. SCHISMUS sp.**

No. 466. Junction of road to Bamion and the main road north, Kabul. June 24, 1954. Altitude 7,600 feet. Small annual with amber-colored seeds.

**220631 and 220632. SCLEROCHLOA DURA (L.) Beauv. Poaceae.**

220631. No. 420. Kunduz, Kataghan. June 30, 1954. Altitude 1,600 feet. Small annual with stiff heads.

220632. No. 430. Kunduz. June 20, 1954. Altitude 1,500 feet. Annual with stiff heads.

**220633. SCORZONERA sp. Cichoriaceae.**

No. 190. Upper Tarnak Valley, Kandahar. May 27, 1954. Bush plant growing to 2 feet in height with green stems.

**220634 and 220635. SETARIA ITALICA (L.) Beauv. Poaceae.**

**Foxtail millet.**

220634. No. 403. Baghlan, Kataghan. June 20, 1954. Altitude 2,000 feet.

220635. No. 349. Tala-Barfaq, Kataghan. June 16, 1954. Altitude 4,500 feet. Small grass in sandy stream bed.

**220636. SORGHUM sp. Poaceae.**

No. 514. *Nai-Shaker*. Mazar-i-Sharif. June 26, 1954. Altitude 1,500 feet.

**220637. PYRACANTHA CRENULATA (Don) Roem. Malaceae.**

**Nepal firethorn.**

From Maryland. Plant growing at the United States Plant Introduction Garden, Glenn Dale. Numbered Aug. 26, 1954.

**220638 to 220640.**

From India. Seeds presented by the Madras Government Agricultural Research Station, Coimbatore, Madras. Received Sept. 2, 1954.

**220638 and 220639. CYMBOPOGON FLEXUOSUS (Nees) Stapf. Malabar grass.**

220638. Annamalai Hills.

220639. Tirunelveli, South India.

**220640. CYMBOPOGON MARTINII (Roxb.) W. Wats.**

**Geranium grass.**

*Sofia.*



## 220641 to 220704.

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 27, 1954.

220641 and 220642. *AEGILOPS SQUARROSA* L. Poaceae.

220641. No. 475. Between Kunduz and Mazar-i-Sharif. June 24, 1954. Altitude 1,500–2,300 feet. Annual.

220642. No. 545. Twenty miles south of Maimana. June 29, 1954. Altitude 3,000 feet.

220643. *AMMI COPTICUM* L. Apiaceae.

No. 705. *Jowani*. Market, Kabul. July 14, 1954. Altitude 6,000 feet. Cattle forage.

220644. *ASTRAGALUS* sp. Fabaceae.

No. 340. Doabi, Kabul. June 16, 1954. Altitude 5,300 feet. Shrub; pods inflated.

220645. *BETA VULGARIS* L. Chenopodiaceae.

Beet.

No. 495. Mazar-i-Sharif. June 26, 1954. Altitude 1,500 feet.

220646. *BRASSICA* sp. Brassicaceae.

No. 624. *Karam*. Market, Herat. July 4, 1954. Reported introduced from Iran 20 years ago.

220647. *CARTHAMUS TINCTORIUS* L. Asteraceae.

Safflower.

No. 616. *Tokhm-i-Katirah*. Market, Herat. July 4, 1954. Altitude 3,200 feet.

220648 to 220650. *CICER ARIETINUM* L. Fabaceae.

Chickpea.

220648. No. 383. *Nakhod*. Pul-i-Khumri, Kataghan. June 19, 1954.

220649. No. 464. *Nakhod*. Market, Kunduz. June 23, 1954.

220650. No. 490. Balkh, Mazar-i-Sharif. June 25, 1954.

220651 to 220655. *CUCUMIS MELO* L. Cucurbitaceae.

Muskmelon.

220651. No. 369. *Khrbuzah*. Pul-i-Khumri, Kataghan. June 19, 1954.

220652. No. 425. Kunduz, Kataghan. June 20, 1954. Husk white with green stripes. Flesh white. Melon 1–1½ feet long and 6–8 inches in diameter.

220653. No. 470. *Kherbozah*. Kunduz, Kataghan. June 24, 1954. Altitude 1,500 feet. Large round melon of the Persian type, 12 inches in diameter; flesh white to green. Flavor fair.

220654. No. 471. *Kherbozah*. Kunduz, Kataghan. June 24, 1954. Altitude 1,500 feet. Elongate melon with green flesh; 1 foot long by 6–8 inches in diameter. Flavor fair.

220655. No. 663. Market, Kandahar. July 8, 1954. Altitude 3,200 feet. Elongate, sweet, skin yellow with orange stripes. Flesh white.

220656. *CYNODON DACTYLON* (L.) Pers. Poaceae.

Bermuda grass.

No. 638. Fifty-eight miles south of Herat. July 5, 1954. Altitude 4,600 feet. Saline-resistant, robust.

220657. *DAUCUS CAROTA* L. Apiaceae.

Carrot.

No. 620. *Zardak*. Market, Herat. July 4, 1954. Altitude 3,200 feet. Planted in the summer for winter use.

220658. *EREMURUS* sp. Liliaceae.

No. 415. Between Baghlan and Kunduz, Kataghan. June 20, 1954. Altitude 1,700 feet.

## 220641 to 220704—Continued

220659. *HORDEUM* sp. Poaceae. Barley.

No. 335. Ghorband, Kabul. June 14, 1954. Altitude 5,800 feet. Short stemmed, short headed.

220660. *HORDEUM* sp.

No. 397. Jaw. Baghlan, Kataghan. June 20, 1954. Altitude 2,000 feet. Late.

220661. *HORDEUM* sp.

No. 492. Jaw. Balkh, Mazar-i-Sharif. June 25, 1954. Altitude 1,400 feet. Long awned, short stemmed.

220662. *HORDEUM* sp.

No. 551. Twenty-two miles southwest of Maimana. June 29, 1954. Wild, 5 feet high.

220663. *HORDEUM* sp.

No. 596. Herat. July 3, 1954. Altitude 3,200 feet.

220664. *HORDEUM* sp.

No. 600. Herat. July 4, 1954. Altitude 3,200 feet. Plant long, awned, growing to height of  $2\frac{1}{2}$  feet.

220665. *LACTUCA SATIVA* L. Cichoriaceae. Lettuce.

No. 627. Kahoo. Market, Herat. July 4, 1954. Altitude 3,200 feet.

220666. *LINUM USITATISSIMUM* L. Linaceae. Flax.

No. 503. Zegher. Mazar-i-Sharif. June 26, 1954. Altitude 1,500 feet.

220667. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.

No. 363. Saib. Market, Pul-i-Khumri, Kataghan. June 19, 1954. Altitude 2,300 feet.

220668. *MEDICAGO SATIVA* L. Fabaceae. Alfalfa.

No. 629. Rishqah. Market, Herat. July 4, 1954. Grown for cattle fodder.

220669. *ORYZA SATIVA* L. Poaceae. Rice.

No. 358. Shaly. Doshi, Kataghan. June 17, 1954. Altitude 3,100 feet. Grown after wheat is harvested on the same land.

220670. *PANICUM MILIACEUM* L. Poaceae. Proso.

No. 628. Arzan. Market, Herat. July 4, 1954. Altitude 3,200 feet.

220671 and 220672. *PHASEOLUS AUREUS* Roxb. Fabaceae. Mung bean.

220671. No. 465. Mash. Market, Kunduz. June 23, 1954.

220672. No. 499. Mazar-i-Sharif. June 26, 1954.

220673. *PISUM SATIVUM* L. Fabaceae. Pea.

No. 434. Moshung. Kunduz. June 22, 1954. Altitude 1,500 feet. Mixed with wheat flour to make bread.

220674. *PRUNUS ARMENIACA* L. Amygdalaceae. Apricot.

No. 370. Zardaloo. Pul-i-Khumri, Kataghan. June 19, 1954.

220675. *PRUNUS CERASIFERA* Ehrh. Myrobalan plum.

No. 437. Aloochoan-i-Siah. Kunduz. June 22, 1954. Fruit black,  $1\frac{1}{2}$ –2 inches in diameter.

220676. *PRUNUS CERASUS* L. Sour cherry.

No. 469. Aloo-Baloo. Kunduz, Kataghan. June 24, 1954. Altitude 1,500 feet. Fruit small, dark red in color.

## 220641 to 220704—Continued

- 220677 to 220679. *PRUNUS PERSICA* (L.) Batsch. Peach.  
 220677. No. 362. *Shaftaloo*. Market, Pul-i-Khumri, Kataghan. June 19, 1954. Altitude 2,300 feet. Cling type with red blush and white flesh.  
 220678. No. 564. *Shaftaloo-i-Shaleel*. Market, Qual Nau, Herat. July 1, 1954. Altitude 3,000 feet. Fruit smooth skinned, skin the color of a plum; flesh firm and white. Fruits to 1½ inch in diameter.  
 220679. No. 608. *Shaftaloo*. Herat. July 4, 1954. Altitude 3,200 feet. Fruit small and red to 2 inches in diameter. Flesh white.
220680. *PRUNUS* sp.  
 No. 635. Fifty-seven miles south of Herat. July 5, 1954. Altitude 4,600 feet. Small wild almond shrubs to 3 feet in height. Spiny.
220681. *RAPHANUS SATIVUS* L. Brassicaceae. Radish.  
 No. 633. *Torob*. Market, Herat. July 4, 1954. Altitude 3,200 feet.
- 220682 and 220683. *SECALE CEREALE* L. Poaceae. Rye.  
 220682. No. 588. *Karrukh*, north of Herat. July 2, 1954. Altitude 4,600 feet.  
 220683. No. 595. *Jowder*. Herat. July 3, 1954. Altitude 3,200 feet.
220684. *SESAMUM INDICUM* L. Pedaliaceae. Sesame.  
 No. 429. *Konjet*. Market, Kunduz. June 21, 1954. Seeds grown for oil.
220685. *SOLANUM MELONGENA* L. Solanaceae. Eggplant.  
 No. 625. *Badinjan-i-Sosani*. Market, Herat. July 4, 1954. Altitude 3,200 feet.
220686. *SPINACIA OLERACEA* L. Chenopodiaceae. Spinach.  
 No. 632. *Palek*. Market, Kabul. July 4, 1954. Altitude 3,200 feet. Grown for a pot-herb. Seeds planted 3 times a year.
220687. *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae. Fenugreek.  
 No. 649. *Olbah* or *Shemli*. Market, Girishk, Kandahar. July 6, 1954. Altitude 2,500 feet. Leaves used as green forage. Seeds used as a medicine.
- 220688 to 220704. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.  
 220688. No. 330. *Nimakao*, Kabul. June 14, 1954. Altitude 5,500 feet. Stem and head short; awned, red tinted.  
 220689. No. 336. *Ghorband*, Kabul. June 14, 1954. Altitude 7,000 feet. Short headed.  
 220690. No. 389. *Gandum-i-Surkh*. Pul-i-Khumri, Kataghan. June 19, 1954. Seeds red.  
 220691. No. 390. *Gandum-i-Sefade*. Pul-i-Khumri, Kataghan. June 19, 1954. Seeds white.  
 220692. No. 392. *Gandum*. Baghlan, Kataghan. June 20, 1954. Short-headed, irrigated.  
 220693. No. 394. *Gandum*. Baghlan, Kataghan. June 20, 1954. Altitude 2,000 feet. Medium heads and stems; seeds red.  
 220694. No. 431. *Gandum*. Kunduz. June 22, 1954. Altitude 1,500 feet. Seeds red, long, awned.  
 220695. No. 432. *Gandum*. Kunduz. June 22, 1954. Seeds white, long, awned.  
 220696. No. 433. *Gandum*. Kunduz. June 22, 1954. Short compact heads with long black awns.



**220641 to 220704—Continued****220688 to 220704—Continued**

220697. No. 451. *Gandum*. Market, Kunduz. June 23, 1954. Seeds red.
220698. No. 486. *Gandum*. Mazar-i-Sharif. June 25, 1954. Altitude 1,400 feet. Plant 3 feet high; seeds red and white, awned.
220699. No. 487. Mazar-i-Sharif. June 25, 1954. Altitude 1,400 feet. Plant 2½ feet high; seeds red, awned, irrigated.
220700. No. 489. Balkh, Mazar-i-Sharif. June 25, 1954. Altitude 1,400 feet. Heavy stems; growing to height of 3 feet.
220701. No. 542. *Gandum*. Forty miles south of Andkhui, Maimana. June 29, 1954. Altitude 1,400 feet. Seeds white, awned; growing to height of 2½ feet.
220702. No. 543. *Gandum*. Fifty-three miles south of Andkhui, Manimana. June 29, 1954. Altitude 1,800 feet. Short heads and stems.
220703. No. 597. *Gandum-i-Shahnazi*. Herat. July 3, 1954. Altitude 3,200 feet. Most popular winter grain of the area.
220704. No. 599. *Gandum-i-Zaafaran*. Herat. July 3, 1954. Altitude 3,200 feet.

**220705 to 220708. ORYZA SATIVA L. Poaceae.****Rice.**

From Iran. Seeds presented by H. V. Geib, American Embassy, Tehran. Received Aug. 31, 1954.

220705. *Dom Siah*.

220706. Seed red. Caspian Region. Thirty-seven degrees north latitude.

220707. *Sadri No. 1*. Caspian Region. Thirty-seven degrees north latitude.

220708. *Sadri No. 2*. Dizful. Thirty-two degrees north latitude.

**220709 to 220713.**

From Pakistan. Seeds presented by the Deputy Conservator Forests, Baluchistan, Quetta. Received Aug. 31, 1954.

220709. *OLEA FERRUGINEA* Royle. Oleaceae.

**Olive.**

220710. *PISTACIA CABULICA* Stocks. Anacardiaceae.

220711. *PISTACIA KHINJUK* Stocks.

220712. *PISTACIA VERA* L.

**Pistachio.**

220713. *PRUNUS EBURNEA* (Spach) Aitch. Amygdalaceae.

**220714. TEPHROSIA VOGELII Hook. f. Fabaceae.**

From Angola. Seeds presented by the Estacao Agricola Central, American Consul, Luanda. Received Sept. 2, 1954.

**220715. COFFEA ARABICA L. Rubiaceae.****Arabian coffee.**

From Ecuador. Seeds presented by Stephen S. White, Servicio Cooperativo Interamericano De Agricultura, Quito. Received Sept. 8, 1954.

*Cumbaya*. Grown at Tumbaco, 9 miles east of Quito. Altitude 7,800 feet; occasional frosts.

**220716 and 220717.**

From England. Cuttings received from Allwood Bros., Haywood Heath, Sussex. Received Sept. 8, 1954.

220716. *DIANTHUS CARYOPHYLLUS* L. Silenaceae.

**Carnation.**

*Emily Allwood*.

220717. *PELARGONIUM*. Geraniaceae.



**220718. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.**

From England. Seeds presented by K. S. Dodds, Director, John Innes Horticultural Station, Bayfordbury, Herts. Received Sept. 8, 1954. Mutant of *Antimold B.*, does not produce sideshoots.

**220719 to 220758. ORYZA SATIVA L. Poaceae. Rice.**

From Indonesia. Seeds presented by Balai Besar Penyelidikan Pertanian, Bogor. Received Sept. 9, 1954.

- 220719. *Baiang 6*. (GS 140).
- 220720. *Bali Kambang 37 No. 8*. (GS 139).
- 220721. *Bandang Putih 680*. (GS 138).
- 220722. *Baok 10*. (GS 137).
- 220723. *Beak Ganggas 836*. (GS 136).
- 220724. *Bengawan 2794*. (GS 135).
- 220725. *Benong 130 No. 2405*. (GS 134).
- 220726. *Brondol Putih T43 No. 3090*. (GS 132).
- 220727. *Brondol Putih 227 No. 14*. (GS 133).
- 220728. *Djalen 37*. (GS 131).
- 220729. *Djambu 129 No. 1852*. (GS 130).
- 220730. *Emata 491*. (GS 129).
- 220731. *Gendjah Beton 1101*. (GS 128).
- 220732. *Gendjah Ratji 322*. (GS 127).
- 220733. *George Sail 510*. (GS 126).
- 220734. *Gropak Gedeh 97 No. 1231*. (GS 125).
- 220735. *Intan 2400*. (GS 124).
- 220736. *Kentijana 2183*. (GS 122).
- 220737. *Ketan Gadjih 647*. (GS 121).
- 220738. *Karang Serang 55*. (GS 123).
- 220739. *Ketan Serang 1200*. (GS 120).
- 220740. *Lati Sail 509*. (GS 119).
- 220741. *Leter 08*. (GS 104).
- 220742. *Lusi 513*. (GS 118).
- 220743. *Major 72*. (GS 117).
- 220744. *Malio 011*. (GS 103).
- 220745. *Mas 2401*. (GS 116).
- 220746. *Muha 012*. (GS 102).
- 220747. *Naga Dhau 83*. (GS 115).
- 220748. *Peta 2802*. (GS 112).
- 220749. *Pulut Nangka 016*. (GS 101).
- 220750. *Salak 2885*. (GS 111).
- 220751. *Skrivimankoty 108*. (GS 110).
- 220752. *Solo 110*. (GS 108).
- 220753. *Sukanandi 1005*. (GS 109).
- 220754. *Tjahaja 2775*. (GS 107).

**220719 to 220758—Continued**220755. *Tjina 114*. (GS 106).220756. *Tuntang 512*. (GS 105).220757. *Untung 588*. (GS 114).220758. *Urang-Urangan 89*. (GS 113).**220759 to 220761.**

From Southern Rhodesia. Seeds presented by the Makoholi Experimental Farm and Breeding Station, Port Victoria. Received Sept. 10, 1954.

220759. *CAJANUS CAJAN* (L.) Druce. Fabaceae. **Pigeonpea.**  
*Makoholi.*

220760. *PHASEOLUS VULGARIS* L. Fabaceae. **Common bean.**  
*Makoholi.*

220761. *SORGHUM VULGARE* Pers. Poaceae.**220762. VICIA GRAMINEA J. E. Smith. Fabaceae.**

From Uruguay. Seeds presented by Dr. Gustavo J. Fisher, Instituto Fito-técnico y Semillero "La Estanzuela," Montevideo. Received Sept. 13, 1954.

**220763 to 220851.**

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 10, 1954. Collected in 1954.

220763. *ALLIUM CEPA* L. Liliaceae. **Onion.**  
No. 368. *Piaz*. Market, Pul-i-Khumri, Kataghan. June 19.

220764. *ALTHAEA ROSEA* (L.) Cav. Malvaceae. **Hollyhock.**  
No. 553. Thirty-eight miles southwest of Maimana. June 29. Altitude 3,000 feet.

220765. *ALTHAEA* sp.

No. 712. *Khatmi*. Market, Kabul. July 14. Flowers white; used as a tea for coughs, toothache, and stomach ache.

220766 to 220768. *ANETHUM GRAVEOLENS* L. Apiaceae. **Dill.**

220766. No. 448. *Shebet*. Market, Kunduz. June 23.

220767. No. 711. *Shebet*. Market, Kabul. July 14. Altitude 6,000 feet. Used as cattle forage when green.

220768. No. 373. *Shebet*. Pul-i-Khumri, Kataghan. June 19.220769. *ASTRAGALUS* sp. Fabaceae.

No. 474. Nineteen miles west of Kunduz, Kataghan. June 24. Altitude 2,000 feet.

220770. *ASTRAGALUS* sp.

No. 603. Herat. July 4. Altitude 3,200 feet. Annual.

220771. *ASTRAGALUS* sp.

No. 681. *Guz*. Fourteen miles north of Ghazni. July 11. Altitude 8,200 feet. Perennial; browsed by cattle.

220772. *AVENA* sp. Poaceae.

No. 491. Balkh, Mazar-i-Sharif. June 25.

220773. *BRASSICA RAPA* L. Brassicaceae. **Turnip.**

No. 675. *Shalgham*. Market, Ghazni. July 11. Altitude 7,000 feet.

## 220763 to 220851—Continued

## 220774. BRASSICA sp.

No. 676. *Sharsham*. Market, Ghazni. July 11. Altitude 7,000 feet.

## 220775. BROMUS sp. Poaceae.

No. 534. Hotel grounds, Andkhui, Maimana. June 28. Altitude 1,200 feet. Annual grass forming dense stands 2½ feet high.

## 220776. Cicer arietinum L. Fabaceae.

Chickpea.

No. 619. *Nakhod*. Market, Herat. July 4. Altitude 3,200 feet.

## 220777. Cichorium endivia L. Cichoriaceae.

Endive.

No. 709. *Kasni*. Market, Kabul. July 14. Altitude 6,000 feet.

## 220778. Citrullus colocynthis (L.) Schrad. Cucurbitaceae. Colocynth.

No. 644. *Tarbooz-i-Abujail*. Six miles north of Farah. July 5. Altitude 2,700 feet.

## 220779. Citrullus vulgaris Schrad.

Watermelon.

No. 501. *Terboz*. Mazar-i-Sharif. June 26. Altitude 1,500 feet.

## 220780 to 220788. Cucumis melo L. Cucurbitaceae.

Muskmelon.

220780. No. 494. Mazar-i-Sharif. June 25. Altitude 1,500 feet. Fruit large, elongate; flesh yellow and very sweet.

220781. No. 500. Mazar-i-Sharif. June 26. Altitude 1,500 feet. Fruit elongate, yellow; flesh green to white.

220782. No. 539. *Kherbozeh*. Market, Andkhui, Maimana. June 28. Altitude 1,200 feet. Fruit round; flesh white.

220783. No. 541. *Kherbozeh*. Market, Andkhui, Maimana. June 28. Altitude 1,200 feet. Fruit elongate, white; flesh white.

220784. No. 650. *Kharbozah-i-Garman*. Market, Girishk, Kandahar. July 6. Altitude 2,500 feet. Fruit round, sweet, light yellow; flesh yellowish-red.

220785. No. 661. *Kharbozah-i-Garhah*. Market, Kandahar. July 8. Altitude 3,200 feet. Fruit round, sweet, light yellow; flesh yellowish-red, sweet.

220786. No. 662. *Kharbozah-i-Sardan*. Market, Kandahar. July 8. Altitude 3,200 feet. Fruit elongate, light yellow; flesh sweet.

220787. No. 717. Market, Andkhui, Maimana. June 28. Fruit yellowish; flesh yellowish-green.

220788. No. 718. Market, Mazar-i-Sharif. June 27. Fruit roundish, white to greenish.

## 220789 to 220791. Cucumis sativus L.

Cucumber.

220789. No. 380. *Khiar*. Pul-i-Khumri, Kataghan. June 19.

220790. No. 618. *Khiar*; *Badrang*. Market, Herat. July 4. Altitude 3,200 feet.

220791. No. 700. *Khiar*; *Badrang*. Market, Kabul. July 14. Altitude 6,000 feet.

## 220792 and 220793. Cucurbita pepo L. Cucurbitaceae.

Pumpkin.

220792. No. 715. Market, Andkhui, Maimana. June 28. Fruit yellow with white flesh.

220793. No. 716. Market, Andkhui, Maimana. June 28. Fruit green with white stripes; flesh yellow.



## 220763 to 220851—Continued

- 220794 and 220795. *DAUCUS CAROTA* L. Apiaceae. Carrot.  
 220794. No. 377. *Zardak*. Pul-i-Khumri, Kataghan. June 19.  
 220795. No. 450. Market, Kunduz. June 23.
220796. *DESMOSTACHYA* sp. Poaceae.  
 No. 641. Forty-four miles north of Farah. July 5, 1954. Altitude 3,200 feet. Perennial bunchgrass, coarse, used for brooms.
220797. *EREMURUS* sp. Liliaceae.  
 No. 478. Twenty-five miles west of Kunduz, Kataghan. June 24, 1954.
220798. *EREMURUS* sp.  
 No. 685. *Sherish*. Sixty-two miles north of Ghazni. July 11, 1954. Altitude 7,500 feet. Young leaves eaten for greens in spring. Glue made from roots.
220799. *GENISTA* sp. Fabaceae.  
 No. 482. About 31 miles west of Kunduz, Kataghan. June 24, 1954.
220800. *GENISTA* sp.  
 No. 590. *Boyah*. Herat. July 3, 1954. Altitude 3,200 feet.
220801. *GLYCYRRHIZA* sp. Fabaceae. Licorice.  
 No. 654. Six miles west of Kandahar. July 7, 1954. Altitude 3,000 feet.
220802. *GOSSYPIUM* sp. Malvaceae. Cotton.  
 No. 610. *Punbah-Danah*. Market, Herat. July 4, 1954. Seeds used for oil and cotton for batting.
220803. *HORDEUM* sp. Poaceae. Barley.  
 No. 521. *Jaw*. Shibarghan, Mazar-i-Sharif. June 27, 1954. Altitude 1,400 feet. Irrigated, short, growing to height of 2 feet.
220804. *IRIS* sp. Iridaceae.  
 No. 586. North of Herat. July 2, 1954. Altitude 5,700 feet. Wild.
220805. *JUNIPERUS MACROPODA* Boiss. Pinaceae. Juniper.  
 No. 577. Zabzara Pass, north of Herat. July 2, 1954. Altitude 8,000 feet. Trees up to 40 feet high.
220806. *LALLEMANTIA ROYLEANA* Benth. Menthaceae.  
 No. 706. *Melangan*. Market, Kabul. July 14, 1954. Altitude 6,000 feet. Seeds boiled with milk or water for coughs.
220807. *LOLIUM TEMULENTUM* L. Poaceae. Darnel.  
 No. 436. Kunduz. June 22, 1954. Altitude 1,500 feet. Growing to a height of 3 feet.
220808. *MEDICAGO SATIVA* L. Fabaceae. Alfalfa.  
 No. 674. *Resh Qah*. Market, Ghazni. July 11, 1954. Altitude 7,000 feet.
220809. *MELILOTUS INDICA* (L.) All. Fabaceae.  
 No. 594. Herat. Altitude 3,200 feet.
220810. *NIGELLA SATIVA* L. Ranunculaceae. Black cumin.  
 No. 375. *Siah-Danah*. Pul-i-Khumri, Kataghan. June 19, 1954. Seeds used as a medicinal oil.
220811. *ONOBRYCHIS* sp. Fabaceae.  
 No. 566. Eight miles south of Qual Nau, Herat. July 2, 1954. Altitude 3,600 feet. Low annual growing to a height of 6 inches.



## 220763 to 220851—Continued

220812. *PANICUM MILIACEUM* L. Poaceae. **Proso.**

No. 509. *Gal.* Mazar-i-Sharif. June 26, 1954. Altitude 1,500 feet. Used for bird seed.

220813. *PAPAVER SOMNIFERUM* L. Papaveraceae. **Opium poppy.**

No. 631. *Khash-Khash.* Market, Herat. July 4, 1954. Altitude 3,200 feet. A source of oil.

220814. *PEGANUM HARMALA* L. Zygophyllaceae.

No. 710. *Sepand.* Market, Kabul. July 14, 1954. Altitude 6,000 feet. Seeds burned for incense.

220815 and 220816. *PHASEOLUS AUREUS* Roxb. Fabaceae. **Mung bean.**

220815. No. 615. *Mash.* Market, Herat. July 4, 1954. Altitude 3,200 feet.

220816. No. 677. *Mash.* Market, Ghazni. Grown in Kandahar. July 11, 1954.

220817. *PLANTAGO* sp. Plantaginaceae.

No. 656. *Bartang.* Market, Kandahar. July 8, 1954. Altitude 3,200 feet.

220818. *PLANTAGO* sp.

No. 708. *Zoof.* Market, Kabul. July 14, 1954. Altitude 6,000 feet.

220819. *POA* sp. Poaceae.

No. 575. Zabzara Pass, Herat. July 2, 1954. Altitude 7,800 feet. Perennial bunchgrass on rocky slope; up to 8 inches high.

220820 to 220823. *PRUNUS ARMENICA* L. Amygdalaceae. **Apricot.**

220820. No. 688. *Zardaloo-i-Safadecheh.* Market, Kabul. July 14, 1954. Altitude 6,000 feet. Fruit whitish, about 1½ inches in diameter; flesh sweet.

220821. No. 689. *Zardaloo.* Market, Kabul. July 14, 1954. Altitude 6,000 feet. Fruit orange, round, 1½ inches in diameter; flesh soft, sweet.

220822. No. 690. *Qaisi.* Market, Kabul. July 14, 1954. Altitude 6,000 feet. Fruit round, small; flesh greenish, sweet.

220823. No. 691. *Zardaloo-i-pyrandi.* Market, Kabul. July 14, 1954. Altitude 6,000 feet. Fruit up to 2½ inches in diameter; flesh slightly tart, orange, soft.

220824. *PRUNUS AVIUM* L. **Sweet cherry.**

No. 687. *Gilas.* Market, Kabul. July 14, 1954. Altitude 6,000 feet. Fruit of medium size.

220825 to 220827. *PRUNUS DOMESTICA* L. **Common plum.**

220825. No. 515. *Alou-Bukhara.* Market, Mazar-i-Sharif. June 27, 1954. Altitude 1,500 feet. Fruit small, yellow with firm yellow flesh.

220826. No. 695. *Tamsur.* Market, Kabul. July 14, 1954. Altitude 6,000 feet. Fruit round, 1¾ inches in diameter; flesh firm, juicy, sweet.

220827. No. 696. *Aloo.* Market, Kabul. July 14, 1954. Altitude 6,000 feet. Fruit round, 1½ inches in diameter; flesh firm, juicy, slightly sour.

## 220763 to 220851—Continued

- 220828 and 220829. *PRUNUS PERSICA* (L.) Batsch. Peach.  
 220828. No. 493. Mazar-i-Sharif. June 25, 1954. Altitude 1,500 feet.  
 Fruit red; flesh with good flavor.  
 220829. No. 697. *Shaftaloo*. Market, Kabul. July 14, 1954. Altitude 6,000 feet. Fruit round,  $2\frac{1}{4}$  inches in diameter, red; flesh white with good flavor.
220830. *PRUNUS* sp.  
 No. 686. *Aloobaloo*. Market, Kabul. July 14, 1954. Altitude 6,000 feet.
220831. *RAPHANUS SATIVUS* L. Brassicaceae. Radish.  
 No. 657. *Torobghen*. Market, Kandahar. July 8, 1954. Altitude 3,200 feet. Leaves used as a potherb.
220832. *SALVIA* sp. Menthaceae.  
 No. 647. *Kanowchah*. Market, Girishk. July 6, 1954. Altitude 2,500 feet. Used as a medicine.
220833. *SALVIA* sp.  
 No. 658. *Kanowchah*. Market, Kandahar. July 8, 1954. Altitude 3,200 feet. Collected in the spring and used as a plaster for wounds and boils.
220834. *SESAMUM INDICUM* L. Pedaliaceae. Sesame.  
 No. 630. *Konjet*. Market, Herat. July 4, 1954. Source of cooking oil.
220835. *SISYMBRIUM* sp. Brassicaceae.  
 No. 702. *Khakshir*. Market, Kabul. July 14, 1954. Used as a tea for coughs and stomach ache. When green, eaten by cattle.
220836. *SORGHUM HALEPENSE* (L.) Pers. Poaceae. Johnson grass.  
 No. 400. Baghlan, Kataghan. June 20, 1954. Altitude 2,000 feet.
220837. *TRIFOLIUM REPENS* L. Fabaceae. White clover.  
 No. 350. Tala-Barfaq, Kataghan. June 16, 1954. Altitude 4,500 feet.
220838. *TRIFOLIUM RESUPINATUM* L. Persian clover.  
 No. 511. *Shaftel*. Mazar-i-Sharif. June 26, 1954. Altitude 1,500 feet.
220839. *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae. Fenugreek.  
 No. 713. *Olbah*. Market, Kabul. July 14, 1954. Altitude 6,000 feet.
- 220840 to 220845. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.  
 220840. No. 488. Mazar-i-Sharif. June 25, 1954. Altitude 1,500 feet.  
 220841. No. 516. *Gandom*. Aq Chah, Mazar-i-Sharif. June 27, 1954. Altitude 1,100 feet.  
 220842. No. 517. *Gandom*. Aq Chah, Mazar-i-Sharif. June 27, 1954. Altitude 1,100 feet.  
 220843. No. 519. *Gandom*. Aq Chah, Mazar-i-Sharif. June 27, 1954. Club type.  
 220844. No. 642. *Gandom*. Seven miles north of Farah. July 5, 1954. Altitude 2,700 feet.  
 220845. No. 682. *Gandom*. Twenty-seven miles north of Ghazni. July 11, 1954. Altitude 8,000 feet. Mixture of types.
220846. *VICIA ERVILIA* (L.) Willd. Fabaceae. Vetch.  
 No. 678. *Shakhel*. Market, Ghazni. July 11, 1954. Altitude 7,000 feet. Seeds boiled and used as cattle feed.

**220763 to 220851—Continued**

220847 to 220851. *VIGNA SINENSIS* (Torner) Savi. Fabaceae. **Cowpea.**

220847. No. 384. *Lobia-i-Sefade*. Pul-i-Khumri, Kataghan. June 19, 1954.

220848. No. 462. *Lobia-i-Sefade*. Market, Kunduz. June 23, 1954.

220849. No. 463. *Lobia-i-Surkh*. Market, Kunduz. June 23, 1954.

220850. No. 498. *Lobia-i-Safade*. Mazar-i-Sharif. June 26, 1954. Altitude 1,500 feet.

220851. No. 614. *Lobia-i-Safade*. Market, Herat. July 4, 1954. Altitude 3,200 feet.

**220852. DENDROCALAMUS GIGANTEUS** Munro. Poaceae. **Bamboo.**

From Puerto Rico. Offsets presented by the Federal Experiment Station, Mayaguez. Received Sept. 13, 1954.

**220853. HORDEUM** sp. Poaceae. **Barley.**

From Sweden. Seeds presented by the Horticultural Botanical University, Uppsala. Received Sept. 14, 1954.

**220854. AXONOPUS COMPRESSUS** Beauv. Poaceae.

From Argentina. Seeds presented by Enrique Clos, Instituto de Fitotecnica, Buenos Aires. Received Sept. 14, 1954.

From the province of Entre Rios.

**220855 and 220856.**

From Portugal. Seeds presented by H. Chambers, Prado, Braga. Received Sept. 14, 1954.

220855. *ANDROPOGON* sp. Poaceae.

220856. *TRIFOLIUM PRATENSE* L. Poaceae. **Red clover.**

**220857 and 220858. FRAGARIA.** Rosaceae. **Strawberry.**

From Australia. Plants presented by the Department of Agriculture, Perth, Western Australia. Received Sept. 14, 1954.

220857. *Melba*.

220858. *Pride of the West*.

**220859 to 220866.**

From New York. Material planted at the Regional Plant Introduction Station, Geneva. Numbered Sept. 14, 1954.

220859. *BRASSICA OLERACEA* var. *CAPITATA* L. Brassicaceae. **Cabbage.**

*Canadian Acre*. From the Central Experiment Farm, Ottawa, Canada. Early maturing with small round heads.

220860. *CUCUMIS SATIVUS* L. Cucurbitaceae. **Cucumber.**

*Shogoin No. 1-48*. From E.M. Meader, Agricultural Experiment Station, Durham, N. H. Originally from Korea.

220861. *CUCURBITA MAXIMA* Duchesne. **Squash.**

*Hung*. From E.M. Meader, Agricultural Experiment Station, Durham, N. H. Fruit large, 14 inches by 15 inches, yellow.

220862. *JUGLANS REGIA* L. Juglandaceae. **Persian walnut.**

Originally from George Urban, Buffalo, N.Y. Winter hardy.



**220859 to 220866—Continued**

220863 to 220865. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. **Tomato.**

220863. *Bestal*. From the Central Experiment Farm, Ottawa, Canada. Early.

220864. *English Sutton*. From Sutton Seed Co., Reading, England. Midseason.

220865. *Targinnie Red*. From W.M. Epps, Clemson College, S. C. Late.

220866. *ZEA MAYS* L. Poaceae. **Corn.**

*Dorinny Sweet*. From the Central Experiment Farm, Ottawa, Canada. Very early, with small ears.

**220867 to 220871. AVENA SATIVA** L. Poaceae. **Oats.**

From Australia. Seeds presented by the Department of Agriculture, Sydney. Received Sept. 14, 1954.

220867. *Acacia*. 220870. *Dale*.

220868. *Ballidu*. 220871. *Orient*.

220869. *Buddah*.

**220872 to 220876. ORYZA SATIVA** L. Poaceae. **Rice.**

From Venezuela. Seeds presented by an unknown donor. Received Sept. 15, 1954.

220872. *Criollo de Chirgua 3*. 220875. *Criollo Venezuela*.

220873. *Criollo de La Fia*. 220876. *Precoz de Machiques*.

220874. *Criollo de La Victoria*.

**220877 and 220878.**

From Ireland. Seeds presented by the Plant Breeding Department, Albert Agricultural College, Glasnevin, Dublin. Received Sept. 14, 1954.

220877. *DACTYLIS GLOMERATA* L. Poaceae. **Orchard grass.**

Derived from 10 outstanding plants growing in a polycross nursery.

220878. *LOLIUM PERENNE* L. **Perennial ryegrass.**

**220879 to 220918.**

From Belgium. Seeds presented by the Ministere de l'Agriculture, Gembloux. Received Sept. 15, 1954.

220879. *VICIA ARTICULATA* Hornem. Fabaceae.

No. 14.

220880. *VICIA ATROPURPUREA* Desf. **Purple vetch.**

No. 3.

220881 and 220882. *VICIA DASYCARPA* Ten.

220881. No. 21.

220882. No. 29.

220883. *VICIA DISPERMA* DC.

No. 26.

220884. *VICIA ERVILIA* (L.) Willd.

No. 34.

220885. *VICIA HIRSUTA* (L.) S.F. Gray.

No. 31.



**220879 to 220918—Continued**220886. *VICIA NARBONENSIS* L.

No. 15.

220887 and 220888. *VICIA PANNONICA* Crantz.

220887. No. 22.

220888. No. 3.01. (22.01) *Pornbacher*.220889 to 220916. *VICIA SATIVA* L.

Common vetch.

220889. No. 7.

220890. No. 9.

220891. No. 10.

220892. No. 11.

220893. No. 12.

220894. No. 13.

220895. No. 18.

220896. No. 19.

220897. No. 28.

220898. No. 1.02 (*Lignee 1133 Sadovo*).220899. No. 1.05 (*Lignee 267 Tschirpan*).220900. No. 1.08 (*Werther's Ettenberger*).220901. No. 1.10 (*Tammisto*).

220902. No. 1.11 (local strain).

220903. No. 1.12 (local strain).

220904. No. 1.13 (local strain).

220905. No. 1.14 (Caucasus).

220906. No. 1.16 (Haute-Loire, France).

220907. No. 1.27 (Beauce, France).

220908. No. 1.28 (Bourgaz, Bulgaria).

220909. No. 1.29 (Turkey).

220910. No. 1.35 (Piemont).

220911. No. 1.36 (Fodervicker B. Weibull, Sweden).

220912. No. 1.39 (Foradlad sotvicker Svalof, Sweden).

220913. No. 1.40 (Foradlad Gravicker Svalof, Sweden).

220914. No. 1.44 (Languedoc, France).

220915. No. 1.45 (Bulgaria).

220916. No. 1.48 (Le Puy, Haute-Loire, France).

220917. *VICIA SATIVA* var. *LEUCOSPERMA* (Moench) Seringe.

No. 17.

220918. *VICIA TETRASPERMA* var. *GRACILIS* (Lois.) Aschers. & Graebn.

No. 24.

**220919 and 220920. QUERCUS VARIABILIS** Blume. **Fagaceae. Oak.**

From Virginia. Seeds presented by Dr. Orland E. White, University Station, Charlottesville. Received Sept. 16, 1954.

220919. No. 1. Seed large.

220920. No. 2. Seed small.

**220921 to 220936.**

From Australia. Seeds presented by Dr. Wm. Hartley, Australian Department of Agriculture, Canberra. Received Sept. 16, 1954. Collected in 1954.

**220921 to 220928. SORGHUM INTRANS F. Muell. Poaceae.**

**220921. K 112.** Caves on cliffs overlooking beach, Darwin. Mar. 28. Thin-stemmed annual.

**220922. K 114.** Roadside, Stuart Highway, Darwin. Mar. 30. Stout erect stems up to 9 feet high, mostly in dominant stands.

**220923. K 116.** Roadside, Manton River, about 35 miles south of Darwin. Mar. 30. Stout stems up to 10 feet high.

**220924. K 117.** Acacia Creek, 38 miles south of Darwin on Stuart Highway. Mar. 20. Stout stems up to 9 feet high.

**220925. K 118.** Stapleton Track, Adelaide River District, about 72 miles south of Darwin. Mar. 30. Stout stems up to 9 feet high. Dominant stand.

**220926. K 120.** Ferguson River district, 180 miles south of Darwin. Mar. 30. Dominant stand up to 10 feet high.

**220927. K 125.** Stuart Highway, 5 miles south of Mataranka. June 4. Tall annual with shallow roots.

**220928. K 126.** Minoil Beach, Darwin. June 4. Tall annual up to 7 feet high.

**220929. SORGHUM LAXIFLORUM F.M. Bailey.**

**K 128.** Katherine River near Commonwealth Scientific and Industrial Research Organization Station. July 5. Fine-stemmed annual; erect straggling growth sometimes rooting at the nodes.

**220930 to 220934. SORGHUM PLUMOSUM (R. Br.) Beauv.**

**220930. K 109.** Roadside, Stuart Highway opposite Commonwealth Scientific and Industrial Research Organization Station, Katherine. Mar. 19. Tufted growth 9 feet high. Strong-rooted perennial.

**220931. K 110.** King River district on road to Willeroo Station. Mar. 24. Tufted perennial 7-8 feet high.

**220932. K 123.** Stuart Highway 3 miles south of Mataranka. Apr. 10. Tufted perennial.

**220933. K 124.** Stuart Highway 5 miles south of Mataranka. Apr. 10. Tufted perennial.

**220934. W 440.** Kimberley Research Station. Apr. 12.

**220935 and 220936. SORGHUM STIPOIDEUM (Ewart & White) Gard. & Hubb.**

**220935. K 108.** Commonwealth Scientific Industrial and Research Organization Station, Katherine. Mar. 17. Strongly erect 7-8 feet high. Dominant on virgin land.

**220936. K 121.** About 15 miles SW. of Katherine on road to Willeroo Station. Mar. 23. Annual 7-8 feet high.

**220937. CASSIA MOSCHATA H.B.K. Caesalpinaceae.**

From Florida. Plants presented by the United States Plant Introduction Garden, Coconut Grove. Received Sept. 17, 1954.

**220938. SESAMUM ANGOLENSE Welw. Pedaliaceae.**

From Northern Rhodesia. Seed presented by the Pasture Research Officer, Department of Agriculture, Lusaka. Received Sept. 17, 1954.

This is extremely common throughout Northern Rhodesia, growing on waste spaces or by the roadside. The attractive pink flowers resemble those of the foxglove.

**220939 to 220946.**

From Australia. Seeds presented by C. R. Merrillees, St. Kilda, Victoria.  
Received Sept. 17, 1954.

- 220939. *ACACIA STEEDMANII* Maiden. Mimosaceae.
- 220940. *BANKSIA GRANDIS* Willd. Proteaceae.
- 220941. *BORONIA HETEROPHYLLA* F. Muell. Rutaceae.
- 220942. *CROWEA ANGUSTIFOLIA* Turcz. Rutaceae.
- 220943. *EUCALYPTUS TORQUATA* Luehm. Myrtaceae.
- 220944. *HOVEA ELLIPTICA* (J. E. Sm.) DC. Fabaceae.
- 220945. *LESCHENAULTIA BILOBA* Lindl. Goodeniaceae.
- 220946. *NUYTSIA FLORIBUNDA* (Labill.) R. Br. Lorantheae.

**220947. MELILOTUS sp. Fabaceae.****Sweetclover.**

From Egypt. Seeds collected by O. S. Aamodt, Technical Specialist, Plant  
Sciences, Beltsville, Md. Received Sept. 20, 1954.

Collected at Raffa. Apr. 8, 1954. Plants growing on sand dunes adjacent to  
the sea; flowers yellow.

**220948 to 220957.**

From Turkey. Presented by M. Isely, Gaziantep. Received Sept. 20, 1954.

- 220948. *IRIS HISTRIOIDES* Foster. Iridaceae.

(Bulbs.)

- 220949. *IRIS* sp.

(Bulbs.)

I. *Duluk.* (Rhizomes.)

- 220950. *IRIS* sp.

II. *Duluk.* (Rhizomes.)

- 220951. *IRIS* sp.

III. *Duluk.* (Rhizomes.)

- 220952. *IRIS* sp.

IV. *Duluk.* (Rhizomes.)

- 220953. *IRIS* sp.

V. *Duluk.* (Rhizomes.)

- 220954. *IRIS* sp.

*Pearl Grey.* (Bulbs.)

- 220955. *TULIPA* sp. Liliaceae.

**Tulip.**

Wild. Flowers red. (Bulbs.)

- 220956. *IRIS* sp. Iridaceae.

*Pearl Grey.* (Seeds.)

- 220957. *IRIS* sp.

*Duluk.* (Seeds.)

**220958 and 220959.**

From Japan. Plants presented by the Agricultural Experiment Station,  
Zentsjui, Kagawa, Shikoku. Received Sept. 20, 1954.

- 220958. *RUBUS BUERGERI* Miq. Rosaceae.

- 220959. *RUBUS ROSAEFOLIUS* J. E. Sm.



**220960 to 220968. ULMUS PUMILA L. Ulmaceae. Chinese elm.**

From North Dakota. Cuttings presented by the Northern Great Plains Field Station, Mandan. Received Sept. 21, 1954.

220960. Row 1—Tree 5.	220965. Row 5—Tree 6.
220961. Row 1—Tree 6.	220966. Row 7—Tree 2.
220962. Row 1—Tree 7.	220967. Row 7—Tree 6.
220963. Row 1—Tree 4.	220968. Row 7—Tree 7.
220964. Row 5—Tree 3.	

**220969. SORGHUM SUDANENSE (Piper) Stapf. Poaceae.**

**Sudan grass.**

From Argentina. Seeds presented by Enrique C. Clos, Division of Plant Exploration and Introduction, Buenos Aires. Received Sept. 22, 1954.

**220970 to 221043. ZEA MAYS L. Poaceae. Corn.**

From the Union of South Africa. Seeds presented by the Officer in Charge, Agricultural Research Station, Bethlehem, Orange Free State.

220970 to 220991. Selections for genetic characters.

220970. No. 303.	220981. No. 2360.
220971. No. 388.	220982. No. 2362.
220972. No. 670.	220983. No. 2369.
220973. No. 1804.	220984. No. 2371.
220974. No. 2346.	220985. No. 2372.
220975. No. 2347.	220986. No. 2373 (1).
220976. No. 2352.	220987. No. 2373 (2).
220977. No. 2354 (tassel, ear).	220988. No. 2383.
220978. No. 2354 (tassel).	220989. No. 2384.
220979. No. 2358.	220990. No. 2387.
220980. No. 2359.	220991. No. 2387A.

220992 to 221018. Yellow flint lines.

220992. No. 1979.	221006. No. 1933.
220993. No. 1880.	221007. No. 1935.
220994. No. 1882.	221008. No. 1939.
220995. No. 1899.	221009. No. 1944.
220996. No. 1905.	221010. No. 1946.
220997. No. 1907.	221011. No. 1954.
220998. No. 1908.	221012. No. 1961.
220999. No. 1909.	221013. No. 1973.
221000. No. 1911.	221014. No. 1978.
221001. No. 1912.	221015. No. 1983.
221002. No. 1913.	221016. No. 1989.
221003. No. 1920.	221017. No. 1998.
221004. No. 1923.	221018. No. 2012.
221005. No. 1926.	



**220970 to 221043—Continued**

221019 to 221027. Yellow dent lines.

221019. No. 2079.	221024. No. 2250.
221020. No. 2221.	221025. No. 2253.
221021. No. 2230.	221026. No. 2254.
221022. No. 2241.	221027. No. 2260.
221023. No. 2247.	

221028 to 221035. White flint lines.

221028. No. 2021.	221032. No. 2035.
221029. No. 2022.	221033. No. 2036.
221030. No. 2023.	221034. No. 2045.
221031. No. 2024.	221035. No. 2049.

221036 to 221040. White dent lines.

221036. No. 2287.	221039. No. 2308.
221037. No. 2288.	221040. No. 2315.
221038. No. 2289.	

221041 to 221043. Miscellaneous lines.

221041. A441-5.
221042. Gray flint.
221043. Bread mealies (O.P.).

**221044 and 221045.**

From Chile. Seeds presented by A. Hyndman Stein, Food and Agriculture Organization of the United Nations, Santiago. Received Sept. 23, 1954.

221044. *PROSOPIS CHILENSIS* (Molina) Stuntz. Mimosaceae.221045. *PROSOPIS TAMARUGO* Phil.**221046 to 221055. RICINUS COMMUNIS L. Euphorbiaceae.****Castorbean.**

From Argentina. Seeds presented by the Dirección Cultivos Especiales, Buenos Aires. Received Sept. 23, 1954.

221046. T4-03.	221051. 010-1.
221047. T5-01-2.	221052. 011-1.
221048. T5-02.	221053. 013-2.
221049. 04-2.	221054. 014-1.
221050. 06-7-2.	221055. 015-1.

**221056 to 221071.**

From Brazil. Seeds presented by Institute of Agronomy, Campinas, São Paulo. Received Sept. 23, 1954.

221056 to 221067. <i>ARACHIS HYPOGAEA</i> L. Fabaceae.	Common peanut.
221056. J.B.M. 4/3.	221062. <i>Comum.</i>
221057. J.B.M. 19/3.	221063. <i>Tatu.</i>
221058. C.S.1.	221064. <i>Roxo.</i>
221059. C.S.6.	221065. <i>Mfoko A.</i>
221060. <i>Amarelo.</i>	221066. <i>Spanish 2B.</i>
221061. <i>Cateto.</i>	221067. <i>Virginia Bunch.</i>

**221056 to 221071—Continued**

221068. *ARACHIS HYPOGAEA* f. *NAMBYQUARAE* (Hoehne) Hermann.

221069. *ARACHIS* sp.

No. 44.

221070. *ARACHIS* sp.

No. 123.

221071. *ARACHIS* sp.

No. 288.

**221072. *HORDEUM* sp. Poaceae.**

From Germany. Seeds presented by the Director, Botanic Garden, Johannes Gutenberg University, Mainz. Received Sept. 24, 1954.

**221073 to 221077.**

From Union of South Africa. Seeds presented by W. E. Codd, Department of Agriculture, Pretoria. Received Sept. 24, 1954.

221073. *DIOSCOREA DUMETORUM* (Kunth) Pax. Dioscoreaceae.

221074. *DIOSCOREA ELEPHANTIPES* (L'Herit.) Engl.

221075. *DIOSCOREA RETUSA* Mast.

221076. *DIOSCOREA SYLVATICA* Ecklon.

221077. *DIOSCOREA* sp.

**221078 to 221082.**

From Israel. Seeds presented by J. R. Killough, American Embassy, Tel Aviv. Received Sept. 24, 1954.

221078. *DACTYLIS GLOMERATA* L. Poaceae.

Orchard grass.

Collected by J. Tadmor, Wadi Migra. June 4, 1953.

221079. *PANICUM TURGIDUM* Forsk. Poaceae.

Collected by Zwia Kaisari, Wadi Manaya, Araba. Sept. 24, 1953.

221080. *PENNISSETUM DICHOTOMUM* (Delile) Forsk. Poaceae.

Collected by Zwia Kaisari, Wadi Manaya, Araba. May 9, 1953.

221081. *STIPA FONTANESII* Parl. Poaceae.

Collected by H. Tadmor, Wadi Rachme, Negev. May 17, 1953.

221082. *STIPA PARVIFLORA* Desf.

Collected by Zwai Kaisaria, Wadi Nachbir. May 17, 1953.

**221083 to 221087.**

From Israel. Seeds presented by John Killough, United States Operations Mission to Israel, Tel Aviv. Received Sept. 27, 1954.

221083. *ATRIPLEX HALIMUS* L. Chenopodiaceae.

221084. *COLUTEA ISTRIA* Mill. Fabaceae.

221085. *DACTYLIS GLOMERATA* var. *HISPANICA* (Roth) Duby. Poaceae.

221086. *HORDEUM BULBOSUM* L. Poaceae.

221087. *ORYZOPSIS MILIACEA* (L.) Benth. & Hook. Poaceae. Smilo grass.

**221088. *CASIMIROA EDULIS* Llave. Rutaceae. White sapote.**

From Florida. Plant growing at the United States Plant Introduction Garden, Coconut Grove. Numbered Sept. 27, 1954.

Origin unknown. Fruit mealy, not bitter.

**221089. COCHLOSPERMUM GOSSYPIUM (L.) DC. Cochlospermaceae.**

From Florida. Plant growing at the United States Plant Introduction Garden, Coconut Grove. Numbered Sept. 27, 1954.

From E. A. Menninger, Stuart.

**221090. COFFEA ARABICA L. Rubiaceae.****Arabian coffee.**

From Saudi Arabia. Seeds presented by George P. Gibbs, American Legation, Jeddah. Received Sept. 28, 1954.

*Mocha* type. From southern Saudi Arabia. Altitude 5,000-7,000 feet.

**221091 to 221098.**

From India. Seeds received from the Indian Agricultural Research Institute, New Delhi. Received Sept. 29, 1954.

**221091. CHLORIS BARBATA (L.) Sw. Poaceae.**

*I.W. 861.* Grown at Coimbatore.

**221092. CHLORIS BOURNEI Rang. & Tad.**

*I.W. 862.* Grown at Coimbatore.

**221093 to 221096. CHLORIS GAYANA Kunth. Rhodes grass.**

221093. *IC 2691.* Grown at Coimbatore.

221094. *IC 2692.* Grown at Coimbatore.

221095. *IC 2693.* Grown at Coimbatore.

221096. *IC 2721.* Grown at Coimbatore.

**221097. CHLORIS POLYSTACHA Roxb.**

Grown at Coimbatore.

**221098. SORGHUM VULGARE Pers. Poaceae.**

Grown at Coimbatore.

**221099. PARINARIUM sp. Amygdalaceae.**

From Florida. Plants growing at the United States Plant Introduction Garden, Coconut Grove. Numbered Sept. 29, 1954.

From E. A. Menninger, Stuart.

**221100. KAEMPFERIA GILBERTII Bull. Zingiberaceae.**

From India. Plants growing at the United States Plant Introduction Garden, Glenn Dale, Md. Numbered Sept. 29, 1954.

Originally introduced with P.I. 159426 (*Kaempferia galanga* L.) from Poona, India, in 1947.

**221101 to 221108.**

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 20, 1954.

**221101. CARAGANA sp. Fabaceae.**

No. 604. Herat. July 4, 1954. Altitude 3,200 feet. Desert browse plant. May have medicinal properties.

**221102. EPHEDRA sp. Gnetaceae.**

No. 47. Twenty-five miles west of Kunduz, Kataghan. June 24, 1954. Altitude 1,600 feet. Leafless plant with green stems. Grazed by camels.

**221103. EREMURUS SPECTABILIS Bieb. Liliaceae.**

No. 570. Twenty-seven miles south of Qual Nau, Herat. July 2, 1954.



**221101 to 221108—Continued****221104. EREMURUS sp.**

No. 568. Nineteen miles south of Qual Nau, Herat. July 2, 1954. Young leaves eaten as greens in the spring. Roots used to make glue.

**221105. EREMURUS sp.**

No. 569. South of Qual Nau, Herat. July 2, 1954. Leaves used for greens. Roots used to make glue.

**221106. IXIOLIRION sp. Amaryllidaceae.**

No. 484. Shadian, Mazar-i-Sharif. June 24, 1954. Altitude 1,500 feet.

**221107. SALVIA sp. Menthaceae.**

No. 333. Nimakao, Kabul. June 14, 1954. Small lilac-colored plant on a dry rocky hillside. Grows to a height of 1½ feet.

**221108. TRIFOLIUM RESUPINATUM L. Fabaceae. Persian clover.**

No. 643. *Shaftal*. Six miles north of Farah. July 5, 1954. Altitude 2,700 feet.

**221109 to 221114. ORYZA SATIVA L. Poaceae. Rice.**

From India. Seeds presented by the Central Rice Research Institute, Orissa.

Received Oct. 1, 1954.

221109. *BJ 1.*

221112. *S.M. 8.*

221110. *CO 4.*

221113. *T.6517.*

221111. *CO 20.*

221114. *T.6522.*

**221115 and 221116. PRUNUS CERASIA Bl. Amygdalaceae.**

From Israel. Seeds presented by R. M. Samish, Agricultural Research Station, Rehovoth. Received Oct. 4, 1954.

221115. Sour type.

221116. Sweet type.

**221117 and 221118. MANGIFERA INDICA L. Anacardiaceae. Mango.**

From Ceylon. Budsticks presented by the Horticultural Officer, Peradeniya. Received Oct. 4, 1954.

221117. *Peser Passand.*

221118. *Velaicolomban.*

**221119 to 221148.**

From Florida. Plants growing at the United States Plant Introduction Garden, Coconut Grove. Numbered Oct. 5, 1954.

**221119. ABROMA AUGUSTA L. f. Sterculiaceae.**

Robert Pollard, Miami, Fla.

**221120. ACACIA CONFUSA Merr. Mimosaceae.**

Woodlawn Cemetery, Miami, Fla.

**221121. ACACIA LUTEA (Mill.) Britt.**

Beata Island, Dominican Republic, Allison V. Armour Expedition, 1932.

**221122. ACACIA SPADICIGERA Cham. & Schl.**

South side of old Mess Club, Coconut Grove, Fla.

**221123. ANNONA MURICATA L. Annonaceae.**

Growing by Superintendent's house.



## 221119 to 221148—Continued

221124. *ANNONA RETICULATA* L.  
Plot N-4-2-5.
221125. *ARIKURYROBA SCHIZOPHYLLA* (Mart.) Bailey. *Phoenicaceae*. **Palm.**  
Origin unknown.
221126. *AVERRHOA CARAMBOLA* L. *Oxalidaceae*. **Carambola.**  
Plot N-4-1-10-7.
221127. *BAMBUSA TULDA* Roxb. *Poaceae*. **Bamboo.**  
Plot N-1-3.
221128. *BEAUMONTIA GRANDIFLORA* (Roth) Wall. *Apocynaceae*.  
Lothar Hoffmann, Palm Beach, Fla.
221129. *BIGNONIA UNGRUIS-CATI* L. *Bignoniaceae*.  
La Mortola Botanic Garden, Ventimiglia, Italy.
221130. *BOEHMERIA NIVEA* (L.) Gand. *Urticaceae*. **Ramie.**  
China.
221131. *BOMBAX CYATHOPHORUM* (Casar.) K. Schum. *Bombacaceae*.  
W. A. Archer 3989. Lagoinha, Mato Grosso, Brazil.
221132. *BUCIDA BUCERAS* L. *Combretaceae*.  
Miami Garden, April, 1923.
221133. *BURSERA GRAVELOLENS* Triana & Planch. *Burseraceae*.  
Collected in Peru by O. L. Haught in 1929.
221134. *BUTIA NEHRLINGIANA* Abbott. *Phoenicaceae*. **Palm.**  
Col. Robert Montgomery, Coconut Grove, Fla.
221135. *BYRSONIMA CRASSIFOLIA* (L.) H.B.K. *Malpighiaceae*.  
Department of Agriculture greenhouse, Washington, D. C.
221136. *CAESALPINIA PULCHERRIMA* (L.) Swartz. *Caesalpiniaceae*.  
From Uganda, through Dr. H. Humbert.
221137. *CARISSA BISPINOSA* (L.) Desf. *Apocynaceae*.  
Origin unknown.
221138. *CASSIA RACEMOSA* Mill. *Caesalpiniaceae*.  
Botanic Gardens, Buitenzora, Java, 1929.
221139. *CASUARINA ANGULATA* Poiss. *Casuarinaceae*.  
Col. Robert Montgomery, Coconut Grove, Fla., 1936.
- 221140 and 221141. *CERATONIA SILIQUA* L. *Caesalpiniaceae*.  
S. J. Lynch, Subtropical Experiment Station, Homestead, Fla., 1940.
221140. *Ben-shemen*.
221141. *Geva*.
221142. *CESTRUM NOCTURNUM* L. *Solanaceae*.  
Origin unknown.
221143. *CHRYSOBALANUS ICACO* L. *Amygdalaceae*. **Icaco.**  
Matheson Hammock, Fla., 1939.
221144. *CHRYSOPHYLLUM OLIVIFORME* L. *Sapotaceae*.  
R. M. Grey, Cienfuegos, Cuba, 1928.

**221119 to 221148—Continued**

221145. CITRUS GRANDIS (L.) Osbeck. Rutaceae. Pummelo.  
Seedling from Java.

221146. CITRUS sp.

Seedling from Japan; received as *C. pectinifera*; an apparently unpublished name.

221147. CLAUCEA LANSIUM (Lour.) Skeels. Rutaceae. Wampi.  
Plot S-5-5-16-4.

221148. COPERNICIA TORREANA León. Phoenicaceae. Palm.  
Col. Robert Montgomery, Coconut Grove, Fla., 1936.

**221149. FESTUCA MAIREI St. Yves. Poaceae.**

From Australia. Seeds presented by the Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra City. Received Oct. 5, 1954.

Harvested at Chiswick, Armidale, N.S.W.

**221150 to 221154. TRITICUM AESTIVUM L. Poaceae.**

Common wheat.

From Australia. Seeds presented by A. A. Watson, Department of Agriculture, Sydney. Received Oct. 5, 1954.

221150. *Galo 5 × Mentana 1124* (II 50.304. 7.6.1.1.).

221151. *Galo 5 × Mentana 1124* (II 50.304. 8.3.1.1.).

221152. *Galo 5 × Mentana* (II 50.304. A.3.B.1.).

221153. (*Galo × Mentana*) × *Kenya 117A* (II 50.305.7.3.2.B.).

221154. *Mentana 1124*.

**221155 to 221160. COFFEA sp. Rubiaceae.**

From Nicaragua. Seeds presented by Virgil Petersen, Servicio Tecnico Agrícola de Nicaragua, Managua. Received Oct. 5, 1954.

221155. No. 1. M. A. Gonzalez—11JOS La Castellana.

221156. No. 2. M. A. Gonzalez—11JOS La Castellana.

221157. No. 3. A. Esquivel h. Hcda, Verona.

221158. No. 4. A. Esquivel h. Hcda, Verona.

221159. No. 5. San Dionisio.

221160. No. 6. Sevilla.

**221161 to 221165.**

From Afghanistan. Seeds presented by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 6, 1954.

221161. HIBISCUS ESCULENTUS L. Malvaceae. Okra.

No. 660. *Pendi*. Market, Kandahar. July 8, 1954. Altitude 3,200 feet  
221162. (Undetermined.)

No. 601. Herat. July 4, 1954. Altitude 3,200 feet. Low spreading shrub; flowers white to red; fruit melonlike, opening into 4 parts exposing red flesh; flesh eaten to aid in childbirth.

221163. (Undetermined.)

No. 605. Herat. July 4, 1954. Altitude 3,200 feet.

**221161 to 221165—Continued**

221164. (Undetermined.)

No. 609. *Kakuti*. Market, Herat. July 4, 1954. Altitude 3,200 feet. Leaves mixed with curds to add flavor. Reported eaten by cattle and sheep.

221165. (Undetermined.)

No. 659. *Karaps*. Market, Kandahar. July 8, 1954. Altitude 3,200 feet. Used as a medicine for stomach disorders.

**221166 and 221167. URTICA SIMENSIS Hochst. Urticaceae.**

From Ethiopia. Seeds presented by Dr. Edgar Taschdjian, Biology Department, St. Francis College, Brooklyn, N.Y. Received Oct. 6, 1954.

Collected north of Addis Ababa on route to Lake Tsana on edge of stream in highland area.

221166. *Abi Varra*.

221167. *Ambo*.

**221168 to 221174. SACCHARUM. Poaceae.**

**Sugarcane.**

From Australia. Cuttings presented by the Bureau Sugar Experiment Stations, Brisbane, Queensland. Received Oct. 6, 1954.

221168. *H. 45*.

221172. *51 N.G. 17*.

221169. *J. 64*.

221173. *51 N.G. 51*.

221170. *J. 125*.

221174. *51 N.G. 53*.

221171. *Q. 58*.

**221175 to 221199.**

From Florida. Plants growing at the United States Plant Introduction Garden, Coconut Grove. Numbered Oct. 7, 1954.

221175. *DOMBEYA DREGEANA* Sond. Sterculiaceae.

National Botanic Garden, Newlands, Cape Province, Union of South Africa.

221176. *CHRYSALIDOCARPUS LUCUBENSIS* Becc. Phoenicaceae.

**Palm.**

O. F. Cook, Washington, D. C.

221177. *ERIOBOTRYA JAPONICA* (Thunb.) Lindl. Malaceae.

**Loquat.**

Brickell Ave. Garden, Miami, Fla., 1927.

221178. *ERYTHRINA CORALLODENDRUM* L. Fabaceae.

**Coraltree.**

Harvard Botanic Garden, Cienfuegos, Cuba.

221179. *ERYTHROXYLON COCA* Lam. Erythroxylaceae.

**Cocaine-plant.**

Lothar Hoffmann, Palm Beach, Fla., 1932.

221180. *EUGENIA ATROPUNCTATA* Steud. Myrtaceae.

Collected by W. A. Archer, Scotelweg, Surinam, 1934.

221181. *FICUS PADIFOLIA* H.B.K. Moraceae.

H. Nehrling, Naples, Fla., 1935.

221182. *FICOS BREVIFOLIS* Nutt.

Plot N-2-2-4-15.

221183. *FICUS LACOR* Buch.-Ham.

City Park, Miami, Fla., 1931.

221184. *FICUS MITROPHORA* Warb.

Plant Introduction Garden, Summit, Canal Zone, 1929.



**221175 to 221199—Continued**

221185. *FICUS PANDURATA* Hance. Fiddleleaf fig.

Mr. Crawford, Miami, Fla., 1930.

221186. *FLACOURTIA INDICA* (Burm.f.) Merr. Flacourtiaceae.

Mr. Wray, Hollywood, Fla., 1930.

221187. *FUNTUMIA ELASTICA* (Preuss) Stapf. Apocynaceae.

Logos rubber tree.

R. M. Grey, Cienfuegos, Cuba.

221188. *GUAIACUM SANCTUM* L. Zygophyllaceae.

Origin unknown. Native to Florida.

221189. *HEBESTIGMA CUBENSE* (H.B.K.) Urb. Fabaceae.

Fairchild Tropical Garden, 1948.

221190. *HIBISCUS ROSA-SINENSIS* L. Malvaceae.

Chinese hibiscus.

Origin unknown.

221191. *HIBISCUS SCHIZOPETALUS* Hook.f.

Fringed hibiscus.

Origin unknown.

221192. *HIBISCUS TRICUSPIS* Banks.

Tahiti, through the University of Minnesota.

221193. *HOLARRHENA WULFSBERGII* Stapf. Apocynaceae.

Fairchild Garden, 1946.

221194. *HOLMSKIOLDIA SANGUINEA* Retz. Verbenaceae.

Origin unknown.

221195. *ILEX CASSINE* Walt. Aquifoliaceae.

Dahoon.

Origin unknown.

221196. *HAEMATOKYLON CAMPECHIANUM* L. Fabaceae.

Logwood.

Brickell Garden, Miami, Fla., 1930.

221197. *IXORA COCCINEA* L. Rubiaceae.

Origin unknown.

221198. *IXORA PARVIFLORA* Vahl.

Origin unknown.

221199. *JACARANDA MIMOSIFOLIA* D.Don. Bignoniaceae.

Botanic Garden, Buenos Aires, Argentina, 1934.

**221200. *ASPARAGUS FALCATUS* L. Convallariaceae.**

From Australia. Seeds presented by the Director of the Botanic Garden, Adelaide. Received Oct. 7, 1954.

**221201 to 221203.**

From Southern Rhodesia. Seeds presented by H. B. Jones, Makaholi Experimental Farm, Fort Victoria. Received Oct. 11, 1954.

221201. *INDIGOFERA ENDECAPHYLLA* Jacq. Fabaceae.

221202. *PHASEOLUS LUNATUS* L. Fabaceae.

Lima bean.

Seven-year bean.

221203. *PHASEOLUS VULGARIS* L.

Common bean.

Zebra.



**221204 and 221205. SACCHARUM. Poaceae. Sugarcane.**

From Mauritius. Cuttings presented by the Director, Mauritius Sugar Industry Research Institute, Le Reduit.

221204. *E 1/37.*

221205. *196/31.*

**221206 and 221207. TRIFOLIUM ALEXANDRINUM L. Fabaceae.**

**Berseem.**

From Egypt. Seeds obtained from the Egyptian Ministry of Agriculture, Giza, Cairo, through Cornell University, Ithaca, N. Y.

221206. *Fahl.* Annual. Harvest 5-6 tons an acre of fresh clover after 5 months. Gives a good yield of seed.

221207. *Misawy.* Annual. Harvest 2-5 tons an acre. Seed yield is poor.

**221208. SCHIZOPHRAGMA HYDRANGEOIDES Sieb. & Zucc. Saxifragaceae.**

From Maryland. Plants growing at the United States Plant Introduction Garden, Glenn Dale, Md. Numbered Oct. 11, 1954.

Originally from the greenhouses of the Department of Agriculture, Washington, D. C.

**221209 to 221233.**

From Florida. Plants growing at the United States Plant Introduction Garden, Coconut Grove. Numbered Oct. 12, 1954.

221209. *JACOBINIA COCCINEA* (Aubl.) Hiern. Acanthaceae.

Origin unknown.

221210. *JAQUINIA KEYENSIS* Mez. Theophrastaceae.

Origin unknown.

221211. *KHAYA SENEGALENSIS* (Desr.) Juss. Meliaceae.

Originally from Khartoum, Anglo-Egyptian Sudan.

221212. *KLEINHovia HOSPITA* L. Sterculiaceae.

Origin unknown.

221213. *LIVISTONA* sp. Phoenicaceae.

**Palm.**

Received from Col. Montgomery as *L. ovaliformis*, an invalid name.

221214. *LOXOPTERYGIUM HUASANGO* Spruce. Anacardiaceae.

O. L. Haught, Peru, 1929.

221215. *LUCUMA NERVOSA* DC. Sapotaceae.

**Canistel.**

W. L. McIntosh, Clearwater, Fla., 1925.

221216. *LUCUMA OBOVATA* H.B.K.

Origin unknown.

221217. *LUCUMA SALICIFOLIA* H.B.K.

S. J. Lynch, Subtropical Experiment Station, Homestead, Fla., 1941.

221218. *LYSILOMA BAHAMENSIS* Benth. Mimosaceae.

Dr. Dahlberg, Miami, Fla., 1931.

221219. *MANIHOT ESCULENTA* Crantz. Euphorbiaceae.

**Cassava.**

Service Technique, Port-au-Prince, Haiti.

221220. *MIMUSOPS BALATA* (Aubl.) Gaertn. Sapotaceae.

O. F. Cook Collection, Bayeux, Haiti, 1932.

**221209 to 221233—Continued**

221221. *MURRAYA EXOTICA* L. Rutaceae. Orange-jasmine.

Origin unknown.

221222. *MYRCIA ATRAMENTIFERA* Barb.-Rodr. Myrtaceae.

E. A. Menninger, Stuart, Fla., 1947.

221223. *PANDOREA RICASOLIANA* (Tanf.) Baill. Bignoniaceae.

Origin unknown.

221224. *PARKIA JAVANICA* (Lam.) Merr. Fabaceae. Kupang.

R. M. Grey, Cienfuegos, Cuba, 1928.

221225. *PARMENTIERA CERIFERA* Seem. Bignoniaceae. Candle-tree.

Port-o-Spain, Trinidad. 1924.

221226. *PANDANUS* sp. Pandanaceae.

Origin unknown. Received as *P. batisti*, a horticultural name.

221227. *PAUROTIS WRIGHTII* (Griseb. & Wendl.) Britton. Phoenicaceae.

Palm.

Origin unknown.

221228. *PELTOPHORUM INERME* (Roxb.) Llanos. Caesalpiniaceae.

Washington, D.C. 1923.

221229. *PELTOPHORUM DUBIUM* (Spreng.) Taub.

Botanic Garden, Buitenzorg, Java. 1929.

221230. *PETREA VOLUBILIS* L. Verbenaceae.

Origin unknown.

221231. *PHOENIX PUSILLA* Gaertn. Phoenicaceae. Palm.

San Marino, Calif., through O. F. Cook. 1931.

221232. *PHOENIX ROEBELENI* O'Brien. Palm.

Woodlawn Park Cemetery, Miami, Fla. 1930.

221233. *PLEIOGYNIUM SOLANDRI* (Benth.) Engl. Anacardiaceae.

Woodlawn Park Cemetery, Miami, Fla. 1930.

**221234 to 221244. SACCHARUM. Poaceae. Sugarcane.**

From Puerto Rico. Cuttings presented by the Agricultural Experiment Station, Rio Piedras. Received Oct. 12, 1954.

221234. 907. 221240. 947.

221235. 912. 221241. 960.

221236. 913. 221242. 975.

221237. 914. 221243. 980.

221238. 915. 221244. 999.

221239. 929.

221245. *RAUVOLFIA VOMITORIA* Afzel. Apocynaceae.

From New Jersey. Seeds presented by H. B. MacPhillamy, Ciba Pharmaceutical Products, Inc., Summit. Received Oct. 13, 1954.

221246. *EURYA KANEHIRAI* Kobuski. Theaceae.

From Okinawa. Plant growing at the United States Plant Introduction Garden, Glenn Dale, Md. Numbered Oct. 14, 1954.

Originally presented by Tatsuo Saito, APO 719, San Francisco, Calif.

- 221247. PHYLLOSTACHYS DULCIS McClure. Poaceae. Sweetshoot bamboo.**  
 From California. Seeds presented by Mrs. Hildegard F. Manhoff, Altadena.  
 Received Oct. 14, 1954.  
 Selected from P.I. 73452.
- 221248. FRAGARIA. Rosaceae. Strawberry.**  
 From Italy. Plants presented by Planchon Giovanni, Torino. Received Oct.  
 14, 1954.  
*Frouloun.* Fruit large, red and very sweet.
- 221249 to 221275.**  
 From Florida. Plants growing at the United States Plant Introduction  
 Garden, Coconut Grove. Numbered Oct. 19, 1954.
- 221249. DELONIX REGIA (Boj.) Raf. Caesalpiniaceae. Royal poinciana.**  
 Hubert Buckley, St. Petersburg, Fla.
- 221250. PORANA PANICULATA Roxb. Convolvulaceae.**  
 Origin unknown.
- 221251. PSEUDOPHOENIX SARGENTII Wendl. Phoenicaceae. Palm.**  
 Origin unknown.
- 221252. PTYCHOSPERMA MACARTHURI Wendl. Phoenicaceae. Palm.**  
 Sent from Cuba by David Fairchild.
- 221253. ROBINSONELLA DIVERGENS E. G. Baker & Rose. Malvaceae.**  
 Arthur C. James Estate, Coconut Grove, Fla. 1939.
- 221254. ROYSTONEA FLORIDANA O. F. Cook. Phoenicaceae. Palm.**  
 Coconut Grove, Fla.
- 221255. ROYSTONEA REGIA (H.B.K.) O. F. Cook. Cuban royal palm.**  
 R. M. Grey, Cienfuegos, Cuba. 1928.
- 221256. RUSSELIA EQUISETIFORMIS Schl. & Cham. Scrophulariaceae.**  
 Coconut Grove, Fla.
- 221257. SABAL MINOR (Jacq.) Pers. Phoenicaceae. Palm.**  
 Otto Katzenstein, Atlanta, Ga. 1929.
- 221258. SABAL PALMETTO (Walt.) Lodd. Phoenicaceae. Palm.**  
 Col. Montgomery, Coconut Grove, Fla.
- 221259. SABINIA CARINALIS Griseb. Fabaceae.**  
 Col. Montgomery, Coconut Grove, Fla.
- 221260. SAMANEA SAMAN (Jacq.) Merr. Mimosaceae. Raintree.**  
 R. M. Grey, Cienfuegos, Cuba. 1928.
- 221261. SAPIUM SEBIFERUM (L.) Roxb. Euphorbiaceae. Chinese tallowtree.**  
 United States Department of Agriculture seed stocks, Washington, D.C.
- 221262. SEAFORTHIA ELEGANS R. Br. Phoenicaceae. Palm.**  
 Rubber Investigations, CA No. 143.
- 221263. SOLANDRA GUTTATA D. Don. Solanaceae.**  
 James Deering Estate, Miami, Fla. 1940.
- 221264. SPONDIAS PURPUREA L. Anacardiaceae. Purple mombin.**  
 Department of Agriculture, Guatemala City, Guatemala. 1934.



## 221249 to 221275—Continued

221265. STEREOSPERMUM CHELONOIDES DC. Bignoniaceae.

India, through E. A. Menninger, Stuart, Fla. 1947.

221266. STYLOMA PACIFICA (Seem & Wendl.) O. F. Cook. Phoenicaceae.  
Palm.

Mr. Soar, Royal Palm Hotel, Miami, Fla. 1923.

221267. SWIETENIA MAHOGONII Jacq. Meliaceae. West Indian mahogany.  
Origin unknown.

221268. TABEBUIA CHRYSANTHA (Jacq.) Nicholson. Bignoniaceae.  
Origin unknown.

221269. TABEBUIA PENTAPHYLLA (L.) Hemsl.  
David Fairchild (No. 621).

221270. TECTONA GRANDIS L. f. Verbenaceae. Teak.  
Madagascar, through F. G. Walsingham.

221271. SIMPSONIA MICROCARPA (Sarg.) O. F. Cook. Phoenicaceae. Palm.  
Charles T. Simpson, Little River, Fla. 1923.

221272. THYSANOLAENA MAXIMA (Roxb.) Kuntze. Poaceae.  
David Fairchild's residence, Coconut Grove, Fla. 1931.

221273. TREMA ORIENTALIS (L.) Blume. Ulmaceae.  
Hawaii, through A. C. Jordahn, Coconut Grove, Fla.

221274. TRIPHASIA TRIFOLIA (Burm. f.) P. Wilson. Rutaceae.  
David Fairchild, 1929.

221275. ZAMIA FLORIDANA DC. Cycadaceae.  
Rubber Investigations, Coconut Grove, Fla.

## 221276 to 221426.

From Yugoslavia. Seeds presented by the Institute for Plant Breeding and Plant Introduction, Department of Introduction, Zemun. Received Oct. 19, 1954.

221276 to 221292. AVENA SATIVA L. Poaceae. Oats.

221276. *Angelica 1 Bo 33.*

221285. *Kyto.*

221277. *Astra 1 Bo 28.*

221286. Local selection.

221278. *Eho.*

221287. *Novi Sad.*

221279. *Esa.*

221288. *Novi Sad 6.*

221280. *Krusevac 6.*

221289. *Novi Sad 4116.*

221281. *Krusevac 9.*

221290. *Novi Sad 4120.*

221282. *Krusevac 39.*

221291. *Osmo.*

221283. *Krusevac 51.*

221292. *Shasta.*

221284. *Krusevac 56.*

221293 and 221294. HORDEUM DISTICHON L. Poaceae.

221293. No. 1.

221294. No. 2.

221295. HORDEUM DISTICHON var. NUDUM L.  
No. 3.



## 221276 to 221426—Continued

221296 to 221300. *HORDEUM VULGARE* var. *TETRASTICHUM* Celak.221296. *Zemun polje 1/63.*221299. *Zemun polje 18/92.*221297. *Zemun polje 12/127.*221300. *Zemun polje 18/144.*221298. *Zemun polje 12/153.*221301 to 221328. *HORDEUM* sp. Poaceae.

Barley.

221301. *Abeds Kenya.*221315. *Maksimirski 452.*221302. *Coka 2.*221316. *Mannholts.*221303. *Coake 96.*221317. *Novi Sad 1.*221304. *Cope.*221318. *Novi Sad 2.*221305. *Fletumen.*221319. *Novi Sad 4013.*221306. *Groningen.*221320. *Novi Sad 4082.*221307. *Helmi.*221321. *Novi Sad 4184.*221308. *Kolhozni.*221322. *Novi Sad 4276.*221309. *Krasnodar 1920.*221323. *Orazio 1 Bo 25.*221310. *Krim 16.*221324. *Ottone 1 Bo 28.*221311. *Krusevac 1.*221325. *Prior.*221312. *Krusevac 2.*221326. *Smooth Awn.*221313. *Local selection.*221327. *Urania.*221314. *Maksimirski 256.*221328. *Vogel Adam.*221329. *TRITICUM AEGILOPOIDES* Forsk. Poaceae.221330 to 221392. *TRITICUM AESTIVUM* L.

Common wheat.

221330. *Akasabi-Shirazu 1.*221351. *Frumos 16.*221331. *Attilio.*221352. *Hanacka Bela.*221332. *Ble'Preparateur Etienne.*221353. *Hatvani 5612.*221333. *Bon Fermier.*221354. *Hodoniska Holica.*221334. *Bordeaux.*221355. *Horicka.*221335. *Canus.*221356. *Jobred.*221336. *Cenad 117.*221357. *Kansas.*221337. *Cenad 318/3.*221358. *Karadaska.*221338. *Cervato.*221359. *Kazlaka.*221339. *Charlota Strampelli.*221360. *Krusevac 2217.*221340. *Chrudimaka.*221361. *Leda A47.*221341. *Dante Strampelli.*221362. *Magnet.*221342. *Dioszegi 35.*221363. *Metohija.*221343. *Dioszegi K 85/6.*221364. *Muobenkei.*221344. *Dobrovicka cervena.*221365. *Noi.*221345. *Eredeti dioszegi N.R.*221366. *Novi Sad 1421/48.*221346. *Farm.*221367. *Novi Sad 1437.*221347. *Fiorelo.*221368. *Novi Sad 1439.*221348. *Fleischmann.*221369. *Odvos 241.*221349. *Florence C414.*221370. *Posavka.*221350. *Frazinetti.*221371. *Power 13.*

## 221276 to 221426—Continued

## 221330 to 221392—Continued

- |                                |                                       |
|--------------------------------|---------------------------------------|
| 221372. <i>Saisette.</i>       | 221383. <i>Turkey.</i>                |
| 221373. <i>Sampo.</i>          | 221384. <i>U 1.</i>                   |
| 221374. <i>Severjanka.</i>     | 221385. <i>U 10.</i>                  |
| 221375. <i>Sibirka 18/8.</i>   | 221386. <i>Zemun polje 806/13.</i>    |
| 221376. <i>Slapska Vauška.</i> | 221387. <i>Zemun polje 865/46.</i>    |
| 221377. <i>Somogyi.</i>        | 221388. <i>Zemun polje 905/8.</i>     |
| 221378. <i>Stara Banatska.</i> | 221389. <i>Zemun polje 905/96.</i>    |
| 221379. <i>Tavelin.</i>        | 221390. <i>Zimmermann.</i>            |
| 221380. <i>Terrasol.</i>       | 221391. <i>Zidlovovicka podhorka.</i> |
| 221381. <i>Tschermak.</i>      | 221392. <i>Zutica.</i>                |
| 221382. <i>Tulun 3/A-32.</i>   |                                       |

221393. *TRITICUM BOEOTICUM* Boiss.*Rufinnigrum.*221394 to 221397. *TRITICUM COMPACTUM* Host.

- |                            |                            |
|----------------------------|----------------------------|
| 221394. <i>Crassiceps.</i> | 221396. <i>Humboldtii.</i> |
| 221395. <i>Erinaceum.</i>  | 221397. <i>Icterinum.</i>  |

221398 to 221404. *TRITICUM DICOCCUM* Schrank.

Emmer.

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|--------------------------------|-----------------------------|
| 221398. <i>Atratum.</i>        | 221402. <i>Fuchsii.</i>     |
| 221399. <i>Bauhini.</i>        | 221403. <i>Macratherum.</i> |
| 221400. <i>Farum.</i>          | 221404. <i>Tragi.</i>       |
| 221401. <i>Fictesemicanum.</i> |                             |

221405 to 221412. *TRITICUM DURUM* Desf.

Durum wheat.

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| 221405. <i>Affine.</i> (3166 Mohon ripe.)                 |
| 221406. <i>Apulicum.</i> (Raspinegro.)                    |
| 221407. <i>Coerulescens.</i> (Jenah Retifah.)             |
| 221408. <i>Crythromelan.</i> (Orihuela.)                  |
| 221409. <i>Hordeiforme.</i> (Spelmar.)                    |
| 221410. <i>Leuconelan.</i> (Marrocos.)                    |
| 221411. <i>Leucurum.</i> (3161 Fanfarron.)                |
| 221412. <i>Obscurum.</i> (Mourisco Preto de Grão Bacuro.) |

221413 to 221416. *TRITICUM MONOCOCCUM* L.

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|-----------------------------|----------------------------|
| 221413. <i>Sofianum.</i>    | 221415. <i>Hornemani.</i>  |
| 221414. <i>Nigricultum.</i> | 221416. <i>Flavescens.</i> |

221417 and 221418. *TRITICUM PYRAMIDALE* Percival.

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|----------------------------------|
| 221417. <i>Pseudocompressum.</i> |
| 221418. <i>Pseudorecognitum.</i> |

221419 and 221420. *TRITICUM SPELTA* L. Poaceae.

Spelt.

- |                            |
|----------------------------|
| 221419. <i>Album.</i>      |
| 221420. <i>Dasyanthum.</i> |

221421. *TRITICUM TIMOPHEEVI* Zhuk.

**221276 to 221426—Continued**221422 to 221426. *TRITICUM TURGIDUM* L.221422. *Centigramun.*221425. *Mertensii.*221423. *Gentile.* (2800 Novo.)221426. *Pseudo-corvinum.*221424. *Melanotherum.* (Argelino.)**221427. ANDROPOGON PAPILLOSUS** Hochst. Poaceae.

From Tanganyika. Seeds presented by H. J. van Remsburg, Pasture Research Office, Mpwapwa. Received Oct. 21, 1954.

**221428. BROMELIA sp.** Bromeliaceae.

From Paraguay. Seeds presented by Fred J. Kemp, Sociedad Fraternal Hutteriana, Priavera, Alto. Received Oct. 26, 1954.

A wild pineapple.

**221429. CARICA MONOICA** Desf. Caricaceae.

From Peru. Seeds presented by Hector Garayar, Tingo Maria, through A. F. Swanson, Institute of Inter-American Affairs, Lima. Received Oct. 29, 1954.

**221430. CITRULLUS VULGARIS** Schrad. Cucurbitaceae. **Watermelon.**

From Iran. Seeds presented by A. F. Rezeghi, Resht, through W. E. Warne, United States Operations Mission to Iran. Received Oct. 29, 1954.

*Sharif Abad.*

**221431 to 221517.**

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 25, 1954.

221431. *ASTRAGALUS* sp. Fabaceae.

No. 919. *Qoshongah.* Kotal-i-umat, 23 miles on road to Panjab, Kabul. Aug. 19, 1954. Altitude 10,000 feet. Leaves used for green forage. A paste from the leaves is used for boils.

221432. *AVENA SATIVA* L. Poaceae.

Oats.

No. 932. *Owil.* Road to Panjab, 124 miles west of the fork, Kabul. Aug. 20, 1954. Altitude 10,000 feet. Growing in cultivated field.

221433. *AVENA* sp.

No. 852. West side of Shibar Pass, Kabul. Aug. 8, 1954. Altitude 9,200 feet. Growing in irrigated field.

221434. *AVENA* sp.

No. 891. *Owil.* Bamian, Kabul. Aug. 12, 1954. Altitude 8,400 feet. Growing in irrigated field. Stems up to 3 feet tall.

221435. *AVENA* sp.

No. 1022. *Owil.* Twenty-three miles north of Panjab, Kabul. Aug. 27, 1954. Altitude 9,500 feet. Cut for green forage and dried for winter feed.

221436. *BETA VULGARIS* L. Chenopodiaceae.

Beet.

No. 796. *Lablaboo.* Market, Gardez. July 29, 1954. Altitude 7,400 feet. Root about 9 inches long.

221437. *CICER ARIETINUM* L. Fabaceae.

Chickpea.

No. 984. *Nakhod.* Zarani, Kabul. Aug. 22, 1954. Altitude 7,250 feet. Used as flour for bread.



## 221431 to 221517—Continued

- 221438 and 221439. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.  
 221438. No. 823. Market, Kabul. Grown in Mazar-i-Sharif. July 31, 1954. Green-fleshed melon of good flavor.  
 221439. No. 877. *Kharbozeh*. Bamian, Kabul. Grown in Mazar-i-Sharif. Aug. 11, 1954. Long green melon with green flesh, sweet.
221440. CUCUMIS SATIVUS L. Cucumber.  
 No. 799. *Khair*; *Badreng-i-Savareh*. Market, Gardez. July 27, 1954. Altitude 7,400 feet. Reported to be a climbing variety.
221441. HELIANTHUS ANNUUS L. Asteraceae. Common sunflower.  
 No. 1031. *Aftab-Parast*. Kabul. Aug. 30, 1954.
221442. HORDEUM VULGARE L. Poaceae. Barley.  
 No. 740. Kabul. July 21, 1954. Altitude 6,000 feet. Irrigated, planted in the spring.
221443. HORDEUM DISTICHON L.  
 No. 748. Kabul. July 25, 1954. Altitude 6,000 feet. Two-rowed barley. Pure field, irrigated. Plant grows to 2½ feet in height.
- 221444 and 221445. HORDEUM VULGARE L. Poaceae. Barley.  
 221444. No. 775. Sixty-three miles south of Kabul, south of Pass, Gardez. July 29, 1954. Altitude 9,100 feet. Six-rowed barley planted in the spring in March or April. Irrigated.  
 221445. No. 838. *Kaljaw*; *Jow*. East of base of Shibar Pass, Kabul. Aug. 8, 1954. Altitude 8,700 feet. Six-rowed barley planted in spring in March or April. Used to make bread.
221446. HORDEUM DISTICHON L.  
 No. 849. *Safade-Jow*; *Moia-Jow*. West side of Shibar Pass, Kabul. Aug. 8, 1954. Altitude 9,200 feet. Two-rowed barley, grown for cattle feed. Irrigated.
- 221447 to 221457. HORDEUM VULGARE L. Barley.  
 221447. No. 853. *Kal-Jow*; *Jow*. West side of Shibar Pass, Kabul. Aug. 8, 1954. Altitude 9,200 feet. Six-rowed barley, ripens in 90 days. Spring planted. Used for bread. Irrigated 7 times a year.
221448. No. 888. *Jow*. Lower north slopes of the Kuh-i-Baba Range, Bamian, Kabul. Aug. 12, 1954. Altitude 10,000 feet. Grown for bread. Irrigated.
221449. No. 892. *Kal Jow*. Bamian, Kabul. Aug. 12, 1954. Altitude 8,400 feet. Grown for bread and for cattle feed.
221450. No. 893. *Moiah-Jow*. Bamian, Kabul. Aug. 12, 1954. Altitude 8,400 feet. Grown for cattle feed.
221451. No. 916. *Jow*. Maidan, road to Panjab, Kabul. Aug. 19, 1954. Altitude 7,500 feet. Cattle feed.
221452. No. 931. *Siakh-Jow*. Road to Panjab, 124 miles west of the fork, Kabul. Aug. 20, 1954. Altitude 10,000 feet. Spring barley planted middle of May; matures in 90 days. Used for bread.
221453. No. 941. *Jow*. Panjab, Kabul. Aug. 20, 1954. Altitude 9,000 feet. Planted in early May, harvested end of July. Used for bread.
221454. No. 977. *Jow*. Shaherstan, Kabul. Aug. 22, 1954. Altitude 7,400 feet. Planted late in March and cut in late June. Used for bread and cattle feed.



## 221431 to 221517—Continued

## 221447 to 221457—Continued

221455. No. 988. *Jow-i-moya*. Zarani, Kabul. Aug. 22, 1954. Altitude 7,250 feet. Used for bread, also for cattle feed.

221456. No. 999. *Jow*. Twelve miles west of Panjab, Kabul. Aug. 25, 1954. Altitude 10,000 feet. Irrigated.

221457. No. 1003. *Jow*. Thirty-four miles west of Panjab, Kabul. Aug. 25, 1954. Altitude 9,700 feet. Dryland barley on steep hillside.

221458. HORDEUM DISTICHON L. Poaceae. **Barley.**

No. 1009. *Jow-i-Moiah*. Lal, sixty-six miles west of Panjab, Kabul. Aug. 25, 1954. Altitude 9,700 feet. Dryland barley.

221459 to 221462. HORDEUM VULGARE L.

221459. No. 1010. *Kal-Jow*. Lal, sixty-six miles west of Panjab, Kabul. Aug. 25, 1954. Altitude 9,200 feet. Irrigated barley; used for bread.

221460. No. 1021. *Kal-Jow*. Twenty-three miles north of Panjab, Kabul. Aug. 27, 1954. Altitude 9,500 feet. Used for bread and for cattle feed.

221461. No. 1029. *Kal-Jow*. Yakowlang, Kabul. Aug. 27, 1954. Altitude 8,300 feet. Planted in early spring and harvested in June. Used for bread and cattle feed.

221462. No. 1041. *Moia-Jow*. Market, Kabul. Aug. 30, 1954. Altitude 6,000 feet. Planted in fall and harvested in July. Used for cattle feed.

221463. LATHYRUS CICERA L. Fabaceae.

No. 896. *Pateque*. Bamian, Kabul. Aug. 12, 1954. Altitude 8,400 feet. Flour used to stretch wheat flour for bread. Irrigated.

221464. VICIA ERVILIA (L.) Willd. Fabaceae. **Vetch.**

No. 950. *Shakhel*. Twenty-seven miles south of Panjab, Kabul. Aug. 21, 1954. Altitude 9,200 feet. Seeds boiled to take out bitter taste, then ground into flour and mixed with wheat for bread.

221465 to 221467. LATHYRUS CICERA L. Fabaceae.

221465. No. 961. *Kalol*; *Pateque*. Fifty-five miles south of Panjab, Kabul. Aug. 21, 1954. Altitude 8,500 feet. Flour made into bread or mixed with wheat flour for bread.

221466. No. 963. *Kalol*. Sixty-three miles south of Panjab, Kabul. Aug. 21, 1954. Planted in March and harvested in July. Used as flour mixed with barley for bread.

221467. No. 986. *Kalol*. Zarani, Kabul. Aug. 22, 1954. Altitude 7,250 feet. Used with wheat, barley and rye flour for bread.

221468. LENS CULINARIS Medic. Fabaceae. **Lentil.**

No. 1033. *Adas*; *Nask*. Market, Kabul. Aug. 30, 1954. Altitude 6,000 feet.

221469. MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**

No. 975. *Rishqeh*. Shaherstan, Kabul. Aug. 22, 1954. Altitude 7,400 feet. Planted in March; lasts without replanting for 10 years. Harvested four times a year.

221470. PRUNUS ARMENIACA L. Amygdalaceae. **Apricot.**

No. 899. *Qaisi*. Bamian, Kabul. Aug. 12, 1954. Altitude 8,400 feet. Skin white with red blush; flesh white, sweet. Fruit of medium size.

221471. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

No. 1032. *Baid-Anjir*. Market, Kabul. Aug. 30, 1954. Altitude 6,000 feet.

## 221431 to 221517—Continued

- 221472 to 221479. *SECALE CEREALE* L. Poaceae. Rye.
221472. No. 743. *Jaudar*. Kabul. July 21, 1954. Altitude 6,000 feet. Growing as weed in irrigated field.
221473. No. 776. Sixty-three miles south of Kabul, south of Pass, Gardez. July 29, 1954. Altitude 9,100 feet. Growing wild in irrigated field.
221474. No. 822. *Jowder*; *Kaljow*. Market, Kabul. July 31, 1954. Altitude 6,000 feet.
221475. No. 905. *Jowder*. Bamian, Kabul. Aug. 31, 1954. Altitude 8,200 feet. Wild rye in irrigated field.
221476. No. 907. *Kaljow*; *Jowder*. Bulola, Kabul. Aug. 13, 1954. Altitude 8,000 feet. Rye growing wild in irrigated field.
221477. No. 918. *Jowder*; *Kaljow*. Zaymani-Maidan, Road to Panjab, Kabul. Aug. 19, 1954. Altitude 7,500 feet. Growing wild in field.
221478. No. 951. *Jowder*. Forty-two miles south of Panjab, Kabul. Aug. 21, 1954. Altitude 9,200 feet. Cultivated rye found planted on poor wheat land.
221479. No. 1040. *Jowder*. Market, Kabul. Aug. 30, 1954. Altitude 6,000 feet. Reported cultivated. Planted in fall and harvested in the summer. Used for cattle and bird feed.
221480. *STIPA* sp. Poaceae.
- No. 996. Panjab, Kabul. Aug. 23, 1954. Altitude 9,000 feet. Perennial bunchgrass on dry rocky ridge.
221481. *STIPA* sp.
- No. 1013. Eighty-four miles west of Panjab, Kabul. Aug. 25, 1954. Altitude 9,500 feet. Well grazed, perennial bunchgrass.
- 221482 to 221511. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.
221482. No. 741. Kabul. July 21, 1954. Altitude 6,000 feet. Fall wheat, club type. Irrigated.
221483. No. 742. Kabul. July 21, 1954. Altitude 6,000 feet. Spring wheat, irrigated.
221484. No. 751. Khairkana Pass, Kabul. July 26, 1954. Altitude 6,500 feet. Dryland wheat, up to 1 foot in height.
221485. No. 777. Sixty-three miles south of Kabul, south of Pass, Gardez. July 29, 1954.
221486. No. 794. *Gandom-Surkh*. Market, Gardez. July 29, 1954. Altitude 7,400 feet. Red wheat, irrigated.
221487. No. 795. *Gandom-i-Safadechen*. Market, Gardez. Grown at Noqor. July 29, 1954. Altitude 7,400 feet. White, fall wheat.
221488. No. 816. North of Pass, about 57 miles south of Kabul, near Gardez. July 30, 1954. Altitude 8,400 feet. Winter wheat, mixed types; irrigated.
221489. No. 833. *Gandom-i-Baghond-Khoshehi-i-Qalam-i-Gow*. East of Shibar Pass, Kabul. Aug. 8, 1954. Altitude 8,000 feet. Winter wheat planted in September or October.
221490. No. 834. *Shakh-Ali-Gandom-i-Garmen-Quandahri*. East of Shibar Pass, Kabul. Aug. 8, 1954. Altitude 8,000 feet. Winter wheat planted in September or October.
221491. No. 890. *Gandom-i-Shasti*. Bamian, Kabul. Aug. 12, 1954. Altitude 8,400 feet. Spring wheat, matures in 60 days.

## 221431 to 221517—Continued

## 221482 to 221511—Continued

221492. No. 903. *Gandom-i-Garman*. Bamian, Kabul. Aug. 13, 1954. Altitude 8,200 feet. Reported to have been introduced from Iran about 10 years ago and to be rust-resistant. Makes good bread.
221493. No. 904. *Gandom*. Bamian, Kabul. Aug. 13, 1954. Altitude 8,200 feet. Spring wheat, matures in 120 days. Reported not to rust.
221494. No. 909. *Gandom-i-Qalamigow*. Bulola, Kabul. Aug. 13, 1954. Altitude 8,000 feet. Irrigated.
221495. No. 910. *Gandom-Kalaboochondi*. Bulola, Kabul. Aug. 13, 1954. Altitude 8,000 feet. Irrigated. Reported to be rust resistant.
221496. No. 911. *Gandom-i-Sakhtapeh*. Bulola, Kabul. Aug. 13, 1954. Altitude 8,000 feet. Irrigated.
221497. No. 917. *Gandom*. Maidan, road to Panjab, Kabul. Aug. 19, 1954. Altitude 7,500 feet. Red wheat.
221498. No. 939. *Gandom-i-Safade*. Panjab, Kabul. Aug. 20, 1954. Altitude 9,000 feet. Irrigated spring wheat.
221499. No. 940. *Gandom-i-Sorkh*. Panjab, Kabul. Aug. 20, 1954. Altitude 9,000 feet. Dryland wheat planted middle of May and harvested end of August.
221500. No. 964. *Gandom-i-Garman*. Sixty-three miles south of Panjab, Kabul. Aug. 21, 1954. Altitude 8,100 feet. Red wheat. Planted in September and harvested in July. Irrigated.
221501. No. 965. *Gandom-i-Safidae*. Sixty-three miles south of Panjab, Kabul. Aug. 21, 1954. Altitude 8,100 feet. Fall, white wheat; irrigated. Planted in September or October and harvested in July.
221502. No. 981. *Gandom-i-Safade*. Shaherstan, Kabul. Aug. 22, 1954. Altitude 7,400 feet. White wheat, planted in fall and harvested in June.
221503. No. 989. *Gandom-i-Garmeh*. Zarani, Kabul. Aug. 22, 1954. Altitude 7,250 feet. Planted late September and ripe in early June.
221504. No. 992. *Gandom*. Forty-six miles north of Shaherstan, south of Pass, Kabul. Aug. 22, 1954. Altitude 9,300 feet. Fall wheat; irrigated.
221505. No. 1000. *Gandom*. Twenty-six miles west of Panjab, Kabul, Aug. 25, 1954. Altitude 9,200 feet. Dryland wheat, planted in March, cut in August.
221506. No. 1004. *Gandom-Sorkhek*. Lal, sixty-six miles west of Panjab, Kabul. Aug. 25, 1954. Altitude 9,200 feet. Dryland wheat, planted in May and cut in August. Makes very good bread.
221507. No. 1007. *Gandom-i-Safadek*. Lal, sixty-six miles west of Panjab, Kabul. Aug. 25, 1954. Altitude 9,200 feet. Spring wheat; irrigated.
221508. No. 1014. *Gandom*. Garamo, 91 miles west of Panjab, Kabul. Aug. 25, 1954. Altitude 9,200 feet. Spring wheat.
221509. No. 1015. *Gandom-i-Sarkhek*. Doletiar-Chighcheran, 120 miles west of Panjab, Herat. Aug. 26, 1954. Altitude 8,000 feet. Non-irrigated red wheat, planted in May, harvested in September.
221510. No. 1018. *Gandom*. Doletiar-Chighcheran, 120 miles west of Panjab, Herat. Aug. 26, 1954. Altitude 8,400 feet. Dryland wheat. Planted in the spring and cut in late August.
221511. No. 1042. *Gandom-i-Abi*. Market, Kabul. Aug. 30, 1954. Altitude 6,000 feet. Irrigated fall wheat, harvested in July.



**221431 to 221517—Continued**

221512 to 221515. *VICIA ERVILIA* (L.) Willd. Fabaceae.

221512. No. 778. Sixty-nine miles south of Kabul, south of Pass. July 29, 1954. Altitude 8,400 feet.

221513. No. 887. *Shakhel*. Lower north slopes of the Kuh-i-Baba Range, Bamian, Kabul. Aug. 12, 1954. Altitude 9,500 feet. Seeds ground and mixed with wheat flour for bread.

221514. No. 898. *Moshung-Khord*. Bamian, Kabul. Aug. 12, 1954. Altitude 8,400 feet.

221515. No. 1006. *Sakhel*. Lal, 66 miles west of Panjab, Kabul. Aug. 25, 1954. Altitude 9,200 feet. Seeds boiled to take out bitter taste, ground and mixed with wheat flour for bread.

221516 and 221517. *VICIA FABA* L. Fabaceae. **Broadbean.**

221516. No. 897. *Baqoli*. Bamian, Kabul. Aug. 12, 1954. Altitude 8,400 feet. Flour used to stretch wheat flour.

221517. No. 1005. *Baqoli*. Lal, 66 miles west of Panjab, Kabul. Aug. 25, 1954. Altitude 9,200 feet. Ground for bread.

**221518 to 221521. ORYZA SATIVA L. Poaceae. **Rice.****

From China. Seeds presented by H. W. Li, Taiwan Sugar Experiment Station, Tainan, Taiwan. Received Oct. 26, 1954.

221518. *Black Rice*. 221520. Round glutinous rice.

221519. *Okinawa Early*. 221521. *Upland rice No. 1*.

**221522 to 221524.**

From Sweden. Seeds presented by W. Weibull, A.B., Landskrona. Received Oct. 26, 1954.

Tetraploid strains.

221522. *TRIFOLIUM HYBRIDUM* L. Fabaceae. **Alsike clover.**

221523. *TRIFOLIUM PRATENSE* L. **Red clover.**

221524. *TRIFOLIUM REPENS* L. **White clover.**

**221525. PANICUM sp. Poaceae.**

From Algeria. Seeds presented by L. F. Hough, Agricultural Experiment Station, New Brunswick, N.J. Received Oct. 27, 1954.

From the mountains of Hoggar, just north of the oasis of Tamanrasset (Fort Lapperime).

**221526 to 221534.**

From the Fiji Islands. Seeds presented by the Director of Agriculture, Suva. Received Oct. 29, 1954.

Grown at the Plant Quarantine Station, Naduruloulon.

221526 to 221533. *CARICA PAPAYA* L. Caricaceae. **Papaya.**

221526. FDA 13106. *Bettina*.

221527. FDA 13502. *Jones Hermaphrodite*.

221528. FDA 13477. *Mexico Large*.

221529. FDA 13503. *Papaya Line 5*.

221530. FDA 13107. *Petersen*.

221531. FDA 13566. *Red*.

221532. FDA 13029.

221533. FDA 13518.

221534. *VIGNA SESQUIPEDALIS* (L.) Fruwirth. Fabaceae. **Asparagus bean.**



**221535 and 221536.**

From Australia. Seeds presented by Dr. William Hartley, Commonwealth Scientific and Industrial Research Organization, Canberra. Received Nov. 1, 1954.

221535. *STYLOSANTHES GRACILIS* H.B.K. Fabaceae.

221536. *STYLOSANTHES SUNDAICA* Taub.

**221537 to 221688. *SORGHUM VULGARE* Pers. Poaceae.**

From Nigeria. Seeds presented by O. J. Webster, Nebraska Agricultural Experiment Station, Lincoln. Received Nov. 1, 1954.

221537 to 221553. From Sokoto.

221537. *Jan Jare.*

221546. *Malle.*

221538. *Kakin Ganin Buzu.*

221547. *Yar Inuwa.*

221539. *Wanke.*

221548. *Ajebichinka.*

221540. *Yar Alhaji.*

221549. *Kwar Biyu.*

221541. *Jar Kaura.*

221550. *Farafara.*

221542. *Tall Abanni.*

221551. *Jan Jare.*

221543. *Yar Baura.*

221552. *Jan Dawa.*

221544. *Yar Darara.*

221553. *Farar Jan Jare.*

221545. *Jar Dawa.*

221554 to 221567. From Malduguri.

221554. *Aisa Aisa.*

221561. *Chakalari.*

221555. *Dagilwada.*

221562. *Mare.*

221556. *Lagede.*

221563. *Jigari.*

221557. *Kikalmayo.*

221564. *Gowo.*

221558. *Charge.*

221565. *Aganchi.*

221559. *Jigari.*

221566. *Lakita Dai Fika.*

221560. *Balaka.*

221567. *Wamen Daya.*

221568 to 221573. From Kano.

221568. *Farafara.*

221571. *Farafara.*

221569. *Kaura.*

221572. *Kaura.*

221570. *Kaura.*

221573. *Yalan.*

221574 to 221587. From Daura.

221574. *Sheto.*

221581. *Buturi Huta.*

221575. *Yar Bazanga.*

221582. *Yar Maeina.*

221576. *Yar Kawari.*

221583. *Yar Chiroma.*

221577. *Yar Maimaje.*

221584. *Yar Babada.*

221578. *Dakata.*

221585. *Maimahuka.*

221579. *Kaki Jimin Buzu.*

221586. *Farafara.*

221580. *Gabjin.*

221587. *Yar Garkau.*

221588 to 221604.

221588. *Mahuka.*

221592. *Yar Garkau.*

221589. *Agalate.*

221593. *Banufa.*

221590. *Abawa.*

221594. *Farafara.*

221591. *Magara.*

221595. *Farafara.*

## 221537 to 221688—Continued

## 221588 to 221604—Continued

- |                               |                          |
|-------------------------------|--------------------------|
| 221596. <i>Gagara Dawaki.</i> | 221601. <i>Faru.</i>     |
| 221597. <i>Yar Garkau.</i>    | 221602. <i>Farafara.</i> |
| 221598. <i>Yar Garkau.</i>    | 221603. <i>Baragoda.</i> |
| 221599. <i>Raba.</i>          | 221604. <i>Mango.</i>    |
| 221600. <i>Mata.</i>          |                          |

## 221605 to 221611. From the Gold Coast.

- |                        |                           |
|------------------------|---------------------------|
| 221605. <i>Wargu.</i>  | 221609. <i>Mankarago.</i> |
| 221606. <i>Karogo.</i> | 221610. <i>Nunaba.</i>    |
| 221607. <i>Peto.</i>   | 221611. <i>Belko.</i>     |
| 221608. <i>9E.</i>     |                           |

## 221612 to 221614. From Bauchi.

221612. *Jajebojudi Tuma.*  
 221613. *Farafara.*  
 221614. *Dadiya.*

## 221615 to 221619. From Maigana.

- |                            |                            |
|----------------------------|----------------------------|
| 221615. <i>Farafara.</i>   | 221618. <i>Doron Zabo.</i> |
| 221616. <i>Fakar Mori.</i> | 221619. <i>Kaura.</i>      |
| 221617. <i>Taranni.</i>    |                            |

## 221620 to 221622. From Sokoto.

221620. *Short Season.*  
 221621. *Gwana.*  
 221622. *Masakwa.*

## 221623 to 221631. From Zonkwa.

- |                                      |                                    |
|--------------------------------------|------------------------------------|
| 221623. <i>Mori Black Glume.</i>     | 221628. <i>Agyan Black Glume.</i>  |
| 221624. <i>Mori White Glume.</i>     | 221629. <i>Kaura Black Glume.</i>  |
| 221625. <i>Mori Red Glume.</i>       | 221630. <i>Makako.</i>             |
| 221626. <i>Farafara White Glume.</i> | 221631. <i>Kyaran White Glume.</i> |
| 221627. <i>Farafara Black Glume.</i> |                                    |

## 221632 to 221636. From Kafinsoll.

- |                               |                          |
|-------------------------------|--------------------------|
| 221632. <i>Gogara Dawaki.</i> | 221635. <i>Zago.</i>     |
| 221633. <i>Tagwaye.</i>       | 221636. <i>Yar Labe.</i> |
| 221634. <i>Lankwassa.</i>     |                          |

## 221637 to 221639. From Shendam.

221637. *Bakin Kwano.*  
 221638. *Farin Kwano.*  
 221639. *Jan Dawa.*

## 221640 and 221641. From Jos.

221640. *Nyot Seng.*  
 221641. *Bidlk Bipeng.*

## 221642. From Wamba.

- Kukekela.*

## 221537 to 221688—Continued

221643 to 221649. From Shendam.

221643. *Farafara*. 221647. *Mori*.221644. *Bonkum*. 221648. *Jan Dawa*.221645. *Kaura*. 221649. *Jan Mori*.221646. *Kaura*.

221650 and 221651. From Wamba.

221650. *Gake*.221651. *Uwarete*.

221652 to 221655. From Rijanunku.

221652. *Chakla*. 221654. *Sweigarking*.221653. *Kpugigre*. 221655. *Uwarete*.

221656 and 221657. From Shendam.

221656. *Red Bonkum*.221657. *Mur Ban*.

221658. From Jos.

*Farafara*.

221659 to 221661. From Shendam.

221659. *Fitsarin Doki*.221660. *White Bonkum*.221661. *Ogargbo*.

221662. From Panskshin.

*Bonkum*.

221663 and 221664. From Jos.

221663. *Jan Dawa*.221664. *Nyot Kambibid*.

221665 to 221668. From Pankshin.

221665. *Bonkum Mai*. 221667. *Bonkum Mai Tsaba*.221666. *Bonkum Mumuna*. 221668. *Bonkum*.

221669. From Jos.

*Nyara Blrom*.

221670 and 221671. From Idoma.

221670. *Ohumoko*.221671. *Igwu Emichi*.

221672 to 221685. From Lafia.

221672. *Jan Taura*. 221679. *Gwana*.221673. *Akuki*. 221680. *Wade Hela*.221674. *Farin Kaura Inuwa*. 221681. *Yar Muska*.221675. *Short Kaura*. 221682. *Idah*.221676. *Dwarf Yellow Sorghum*. 221683. *Kavirondo*.221677. *Dwarf Yellow Sorghum*. 221684. *Kerbien*.221678. *Ruguza*. 221685. *Yan Malika*.

**221537 to 221688—Continued**

221686. From Maidugari.

*Masakwa-Ajagama.*

221687. From Illorin.

*Sosak.*

221688. From Samara.

*Short Kaura.***221689 to 221704.**

From Indonesia. Seeds presented by the United States Operations Mission,  
 Djakarta. Received Nov. 2, 1954.

Reported to be of Russian origin.

221689. AVENA SATIVA L. Poaceae. Oats.

No. 4.

221690. BRASSICA NAPUS L. Brassicaceae. Rape.

No. 14.

221691. CICER ARIETINUM L. Fabaceae. Chickpea.

No. 15.

221692. FAGOPYRUM ESCULENTUM Moench. Polygonaceae. Buckwheat.

No. 5.

221693. HELIANTHUS ANNUUS L. Asteraceae. Common sunflower.

No. 2.

221694. LUPINUS ALBUS L. Fabaceae. White lupine.

No. 16.

221695. PANICUM MILIACEUM L. Poaceae. Proso.

No. 7.

221696. PHASEOLUS VULGARIS L. Fabaceae. Common bean.

No. 13.

221697. PISUM SATIVUM L. Fabaceae. Pea.

No. 12.

221698. RICINUS COMMUNIS L. Euphorbiaceae. Castorbean.

No. 1.

221699 to 221702. TRITICUM AESTIVUM L. Poaceae. Common wheat.

221699. No. 3. Red. 221701. No. 8. Red, soft.

221700. No. 5. Red, soft. 221702. No. 11. White.

221703 and 221704. ZEA MAYS L. Poaceae. Corn.

221703. No. 9.

221704. No. 10.

**221705. EXOGONIUM MICRODACTYLUM (Griseb.) House. Convolvulaceae.**

From Cuba. Root presented by the Minister of Agriculture, Estación Experi-  
 mental Agronómica, Santiago de las Vegas. Received Nov. 3, 1954.



## 221706 to 221862.

From the Union of South Africa. Seeds presented by L. M. Josephson, College of Agriculture, Potchefstroom, Transvaal. Received Nov. 3, 1954.

221706 to 221712. ARACHIS HYPOGAEA L. Fabaceae. Common peanut.

221706. *Alpha*. Selection from Natal Common.

221707. *Lusaka D*. Selection from Natal Common, dryland type.

221708. *Masambika*. Selection from Natal Common.

221709. *P 1430*. *Gudiyatham* bunch type.

221710. No. 43G90 (a). (*A. hypogaea* f. *nambyquarae* × *Java 10*); late maturing.

221711. No. 51G37 (a). *Guatemala* × *Gudiyatham*, dryland type.

221712. No. 51G64 (a). (*A. hypogaea* f. *nambyguarae* × *Java 10*) × (*Barberton* × *Masambika*).

221713 to 221717. GLYCINE MAX (L.) Merr. Fabaceae. Soybean.

221713. *Blyvoor*; (*P449* × *Dixie*). One hundred thirty day maturity.

221714. No. 48S103. *Seminole* × (*P449* × *Dixie*) × *Mandarin*.

221715. No. 50S80. *Seminole* × (*P449* × *Dixie*) × *Mandarin*.

221716. No. 50S244. *R79* × *Lincoln*. One hundred twenty day maturity. Originally from Southern Rhodesia.

221717. No. 51S54. (*P449* × *Dixie*) × *Manda*. One hundred twenty day maturity.

221718 to 221728. SORGHUM VULGARE Pers. Poaceae.

221718. Row 46. *Kafir* selection.

221719. Row 47. *Milo* selection.

221720 to 221724. From French Equatorial Africa. Late maturing.

221720. Row 86. *Birdproof* × 221723. Row 92.  
*Line*.

221721. Row 87. 221724. Row 95.

221722. Row 90.

221725. *Dwarf Feterita*.

221726. *Dwarf Yellow Milo*.

221727. *Radar*.

221728. *Swazi Dwarf*.

221729 to 221732. VIGNA SINENSIS (Torner) Savi. Fabaceae. Cowpea.

221729. No. 51C42. Seed type; early maturing (2 months), short terminal seedstalks.

221730. No. 51C57. Double-purpose type; intermediate maturity (2½ months).

221731. No. 51C295. Taller than P. I. 221729; high seed yields; intermediate maturity (2½ months).

221732. No. 51C299. Similar to P. I. 221731.

221733 to 221862. ZEA MAYS L. Poaceae.

221733 to 221772. White dent.

221733. A13-2. 221736. A16-3-2.

221734. A14. 221737. A17-1-1.

221735. A15-1. 221738. A20-4.

## 221706 to 221862—Continued

## 221733 to 221862—Continued

## 221733 to 221772—Continued

221739. A21-4-1.  
 221740. A21-4-2.  
 221741. A22-3-1.  
 221742. N75-1-1.  
 221743. N72-3-1-1.  
 221744. E184-1-1-2 (S6 K2234).  
 221745. E184-1-1-4 (S6 K2234).  
 221746. E198-2-1-1 (S5 Syn. *Anveld*).  
 221747. E205-1-1-1 (S5 Syn. *Anveld* S5).  
 221748. E223-1-1-1 (S5 Syn. *P.P.* 21).  
 221749. E199-1-1 (S5 Syn. *Anveld* 40).  
 221750. E292-1-1-1 (S5 Syn. *Anveld* × *Minn.* 706).  
 221751. E294-2-1-1 (S5 Syn. *Anveld* × *Minn.* 706).  
 221752. E298-2-1 (S5 Syn. *Anveld* × *Minn.* 706).  
 221753. E304-1-1 (S5 Syn. *Anveld* × *Minn.* 706).  
 221773 to 221803. Yellow dent.  
 221773. A415-1-3.  
 221774. A435-4.  
 221775. A436-1.  
 221776. A437-1.  
 221777. A441-1-2.  
 221778. A441-2B-1.  
 221779. A441-3A-2.  
 221780. A441-4-1.  
 221781. A446-1B-1-1.  
 221782. A446-1G-1.  
 221783. A447-1.  
 221784. A463-3B-1.  
 221785. A468-1.  
 221786. E663-1.  
 221787. E670-1-1 (S6) *Golden Standard*.  
 221788. E680-2-1-3 (S5).

221754. E304-1-2 (S5 Syn. *Anveld* × *Minn.* 706).  
 221755. E308-1-1 (F5. *Minn.* 706 × Syn. *Anveld*).  
 221756. F 16-1-1-1 (S5 *P.P.* 20-1).  
 221757. F 22-1-1-1 (S5 *P.P.* 22).  
 221758. F7-1-1-2 (S5 *P.P.* 7).  
 221759. F7-2-1 (S5 *P.P.* 7).  
 221760. F330-2-1.  
 221761. F151-1-1-1.  
 221762. F163-2-1-1.  
 221763. F222-1-1-1.  
 221764. F246-1-4.  
 221765. F255-1-3-2.  
 221766. F271-3-2-2.  
 221767. F281-1-1-2.  
 221768. F288-1-1.  
 221769. F318-1-1.  
 221770. *P.P.* 14-4-1-1 (S3).  
 221771. Rhod. 50 DN 36-2-1.  
 221772. Rhod. 50 DH 18-1-2.  
 221789. E683-1-2-1 (S5).  
 221790. E684-1-1-1 (S5).  
 221791. E685-1-2 (S5).  
 221792. E686-1-1 (S5).  
 221793. E695-1-1-2 (S5).  
 221794. E697-1-1-1 (S5).  
 221795. E728-1-1-1 (S5).  
 221796. E739-1-1-2 (F4).  
 221797. F755-2-2-1 (S4). *Teko*.  
 221798. F766-1-1-1 (S3).  
     Chester County.  
 221799. C423M-1 (F5).  
 221800. C430-1 (F7).  
 221801. C432-1 (F7).  
 221802. C438-1 (F7).  
 221803. C474 (F7).

## 221706 to 221862—Continued

## 221733 to 221862—Continued

221804 to 221824. Yellow flint.

- 221804. A242-2 (S 10) *Peruvian*.
- 221805. A243-1-2 (S 10) *Peruvian*.
- 221806. A256-1 (S 10) *Peruvian*.
- 221807. A272-1-3 (S 11) *Boesman*.
- 221808. A274-1 (S 10) *Boesman*.
- 221809. A281-1-1 (S 11) *Boesman*.
- 221810. A299-1 (S 10) *Benguela*.
- 221811. A302-1-2 (S 10) *Serventina*.
- 221812. A310-2 (S 10) *Hotnot*.
- 221813. A325-1 (S 10) *Hotnot*.
- 221814. A329-2 (S 10) *Argentina*.
- 221815. A337-2-3 (S 11) *Peruvian*.
- 221816. A377-2 (S 10) *Peruvian*.
- 221817. A413-3A-1-1 (S 10) *Robyn*.
- 221818. A441-5-1-1 (S 11) *Robyn* × *Leaming*.
- 221819. C409-1 (F 11) *Hotnot* crosses.
- 221820. C410-1 (F 11) *Hotnot* crosses.
- 221821. E680-3-1-1 (S 6).
- 221822. E783-1-2-1 (S 6) STS. 4222.
- 221823. A71-1-1 (50 K) *Teomaize*.
- 221824. A71-2-1 (50 K).

221825 to 221840. White dent.

- |   |                                      |
|---|--------------------------------------|
| 221825. Synthetic Potch.<br>Pearl.              | 221833. Iowa Silver Mine.            |
| 221826. Anveld.                                 | 221834. White Cob Silver<br>King.    |
| 221827. Early King.                             | 221835. American White Flint.        |
| 221828. Mic's Success.                          | 221836. (1) Salisbury White.         |
| 221829. (1) Hickory King.<br>Bechino.           | 221837. (2) Salisbury White.         |
| 221830. (2) Hickory King.<br>Sclanders (100 K). | 221838. Natal White Horse-<br>tooth. |
| 221831. (3) Hickory King.                       | 221839. Namalenga.                   |
| 221832. × Ladysmith White<br>Pearl.             | 221840. Makenga.                     |

221841 to 221849. Yellow dent.

- |                            |  |
|----------------------------|--|
| 221841. Teko Yellow.       | 221846. Natal Yellow Horse-<br>tooth.      |
| 221842. Robyn (Kroonstad). | 221847. × Spykepit 53.                     |
| 221843. Sahara (Mottram).  | 221848. (1) Chester county<br>53:Z3 R2494. |
| 221844. Sahara (Basson).   | 221849. (2) Chester county<br>53:Z3 R2494. |
| 221845. Homedale.          |  |

## 221706 to 221862—Continued

## 221733 to 221862—Continued

221850 to 221854. Yellow flint.

221850. *Golden Beauty*.221853. *Hotnot*.221851. *Yellow Boesman*.221854. *Natal 8-row*.221852. *Peruvian*.221855 to 221859. *Recovered 36-16*.

221855. K64X33-167-1-1-1.

221858. C143X33-168-1-1-2-1.

221856. K64X33-167-2-1-1 2.

221859. C143X33-167-2-1-1.

221857. C143X33-168-1-1-1-1.

221860. WF 9.

221861. W 22.

221862. Tunicata type.

## 221863 to 221896. ZEA MAYS L. Poaceae.

Corn.

From Iowa. Seeds in storage at the Regional Plant Introduction Station,  
Ames. Numbered Nov. 4, 1954.

P.I. No.	Missouri accession No.	Variety	Origin
221863.	2266	<i>Improved Reid's Yellow Dent</i>	Oklahoma.
221864.	2267	<i>Oklahoma Large Southwestern Dent</i>	Oklahoma.
221865.	2268	<i>Gundy Special Yellow (white cob)</i>	Missouri.
221866.	2269	<i>Boone County White</i>	Missouri.
221867.	2270	<i>90-Day Yellow</i>	Missouri.
221868.	2271	<i>Iowa Silvermine</i>	Missouri.
221869.	2272	<i>Johnson County White</i>	Missouri.
221870.	2273	<i>Reid's Yellow Dent</i>	Missouri.
221871.	2275	<i>Delta Prolific White</i>	Arkansas.
221872.	2276	<i>Neal's Paymaster</i>	Arkansas.
221873.	2277	<i>White Surecropper</i>	Arkansas.
221874.	2278	<i>Yellow Surecropper</i>	Texas.
221875.	2279	<i>Ferguson Yellow Dent</i>	Texas.
221876.	2280	<i>Jarvis Golden Prolific</i>	Tennessee.
221877.	2287	<i>Midland</i>	Missouri.
221878.	2288	<i>Leaming</i>	Missouri.
221879.	2289	<i>St. Charles</i>	Missouri.
221880.	2290	<i>Midland</i>	Missouri.
221881.	2291	<i>St. Charles</i>	Missouri.
221882.	2292	<i>Reids</i>	Missouri.
221883.	2294	<i>Blattel White</i>	Missouri.
221884.	2295	<i>Pipe Corn</i>	Missouri.
221885.	2307	<i>White Dent</i>	Missouri.
221886.	2308	<i>Early Yellow Dent</i>	Missouri.
221887.	2313	<i>Iowa Gold Mine</i>	Missouri.



## 221863 to 221896—Continued

<i>Missouri</i> <i>accession</i>		Variety	Origin
P.I. No.	No.		
221888.	2320	<i>Missouri Pipe Corn Meerscheum</i>	Missouri.
221889.	2474	<i>Mexican June</i>	Missouri.
221890.	2632	<i>Frerer Yellow Dent</i>	Missouri.
221891.	2634	<i>West Virginia Yellow Dent</i>	Missouri.
221892.	2635	<i>Ozark Mortgage Lifter</i>	Missouri.
221893.	2636	<i>Ozark Early Adams</i>	Missouri.
221894.	2639	<i>Ozark Yellow Silvermine</i>	Missouri.
221895.	2648	<i>Dill White Dent</i>	Kansas.
221896.	2713	<i>Osborn White Dent</i>	Missouri.

## 221897. PHASEOLUS LATHYROIDES L. Fabaceae.

From Australia. Seed presented by Dr. William Hartley, Australian Department of Agriculture, Canberra. Received Nov. 5, 1954.

## 221898. JUGLANS REGIA L. Juglandaceae. Persian walnut.

From England. Seeds presented by the East Malling Research Station, near Maidstone, Kent. Received Nov. 5, 1954.

*Fertilis*. A shrubby form, producing thin-shelled nuts, sometimes on plants 2 or 3 years old.

## 221899 to 221965.

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 9, 1954.

Collected from July to August 1954.

## 221899. AEGILOPS sp. Poaceae.

No. 971. Shaherstan, Kabul. Altitude 7,400 feet. Dry border of field.

## 221900. ELYMUS DAHURICUS Turcz. Poaceae.

No. 857. Six miles east of Bamian, Kabul. Altitude 8,200 feet. Gravel river bottom.

## 221901. AGROPYRON REPENS (L.) Beauv. Poaceae.

No. 858. Six miles east of Bamian, Kabul. Gravel river bottom.

## 221902. AGROPYRON sp.

No. 870. Band-i-Amir, Bamian, Kabul.

## 221903 to 221905. AGROSTIS ALBA L. Poaceae.

Redtop.

221903. No. 883. *Taleh*. Bamian, Kabul. Altitude 8,500 feet.

221904. No. 914. Road to Panjab, 7 miles from fork, Kabul. Altitude 7,500 feet.

221905. No. 923. *Qaiag*. Garden Diwar, 43 miles on road to Panjab, Kabul. Altitude 10,500 feet. Well-grazed, perennial bunchgrass.

## 221906. AGROSTIS PALUSTRIS Huds.

No. 934. *Taleh*. Road to Panjab, 130 miles west of the fork, Kabul. Well-grazed, perennial bunchgrass.

## 221907. AGROSTIS ALBA L.

Redtop.

No. 947. *Qaiag*. Twenty-seven miles south of Panjab, Kabul. Altitude 9,200 feet. Perennial, bunchgrass; for winter and summer feed.

## 221899 to 221965—Continued

221908. *POA PRATENSIS* L. Poaceae. Kentucky bluegrass.

No. 948. *Quaiag*. Twenty-seven miles south of Panjab, Kabul. Altitude 9,200 feet. Perennial, bunchgrass; for winter and summer feed.

221909 and 221910. *AGROSTIS ALBA* L. Poaceae. Redtop.

221909. No. 957. *Owjer*. Fifty-five miles south of Panjab, Kabul. Altitude 8,500 feet.

221910. No. 1020. *Quaiag*. Twenty-three miles north of Panjab, Kabul. Altitude 9,500 feet.

221911. *ALLIUM CEPA* L. Liliaceae. Onion.

No. 792. *Piaz*. Marget, Gardez. Altitude 7,400 feet.

221912. *ALLIUM* sp.

No. 808. Pass about 62 miles south of Kabul, near Gardez. Altitude 9,400 feet.

221913. *ALLIUM* sp.

No. 843. Shibar Pass, Kabul. Altitude 9,500 feet. Wild onion, edge of wheat field.

221914. *ALLIUM* sp.

No. 956. *Tosleh*. Fifty-two miles south of Panjab, south of Pass, Kabul. Altitude 8,900 feet. Green leaves used as potherb.

221915. *ALOPECURUS* sp. Poaceae.

No. 879. Bamian, Kabul. Altitude 8,500 feet. Perennial bunchgrass cut for green fodder.

221916. *ALOPECURUS* sp.

No. 946. *Quaiag*. Twenty-seven miles south of Panjab, Kabul. Altitude 9,200 feet. Perennial bunchgrass.

221917. *BOTHRIOCHLOA ISCHAEMUM* (L.) Keng. Poaceae.

No. 856. Bamian, Kabul. Altitude 8,300 feet. Perennial bunchgrass, reported to be the best forage of the Bamian area.

221918 to 221920. *FESTUCA ELATIOR* L. Poaceae. Meadow fescue.

221918. No. 764. Fifty-seven miles south of Kabul, north of Pass, Gardez. Altitude 8,400 feet. Perennial bunchgrass.

221919. No. 881. Bamian, Kabul. Altitude 8,500 feet. Perennial bunchgrass.

221920. No. 958. *Owjer*. Fifty-five miles south of Panjab, Kabul. Altitude 8,500 feet. Perennial pasture grass eaten by cows, horses and donkeys; reported poisonous to sheep and goats.

221921. *BROMUS TECTORUM* L. Poaceae.

No. 851. West side of Shibar Pass, Kabul. Altitude 9,200 feet. Annual grass.

221922. *CAREX NIGRA* Reichard. Cyperaceae.

No. 929. *Deleh*. Garden Diwar, 43 miles on road to Panjab, Kabul. Altitude 10,500 feet.

221923. *CUCURBITA MAXIMA* Duchesne. Cucurbitaceae. Squash.

No. 786. *Kadou-i-Balkhi*. Market, Gardez. Fruit light yellow, with white flesh.

221924. *DAUCUS CAROTA* L. Apiaceae. Carrot.

No. 780. *Zardak*. Market, Gardez. Altitude 7,400 feet.

## 221899 to 221965—Continued

- 221925 and 221926. *ERAGROSTIS PILOSA* (L.) Beauv. Poaceae.
221925. No. 738. Kabul. Altitude 6,500 feet.
221926. No. 975. *Galkeh-Alf*. Shaherstan, 96 miles south of Kabul. Altitude 7,400 feet. Perennial bunchgrass.
221927. *FESTUCA* sp. Poaceae.
- No. 866. Band-i-Amir, Bamian, Kabul. Altitude 9,500 feet. Perennial grass.
221928. *FESTUCA* sp.
- No. 876. Band-i-Amir, Bamian, Kabul. Altitude 9,500 feet.
221929. *HORDEUM* sp. Poaceae.
- No. 854. Bulola, Kabul. Altitude 8,000 feet. Perennial bunchgrass.
221930. *HORDEUM* sp.
- No. 865. Band-i-Amir, Kabul. Altitude 9,500 feet. Perennial bunchgrass.
221931. *HORDEUM* sp.
- No. 867. Band-i-Amir, Bamian, Kabul. Altitude 9,500 feet. Perennial bunchgrass.
221932. *HORDEUM* sp.
- No. 869. Band-i-Amir, Bamian, Kabul. Altitude 9,500 feet. Perennial, on dry slope.
221933. *HORDEUM* sp.
- No. 925. *Qaiag*. Garden Diwar, 43 miles on road to Panjab, Kabul. Altitude 10,500 feet. Perennial, well-grazed grass.
221934. *HORDEUM* sp.
- No. 1012. Eighty-four miles west of Panjab, Kabul. Altitude 9,500 feet.
221935. *JUNCUS ARTICULATUS* L. Juncaceae.
- No. 927. *Taleh*. Garden Diwar, 43 miles on road to Panjab, Kabul. Altitude 10,500 feet. Well-grazed rush.
221936. *LACTUCA SATIVA* L. Cichoriaceae. **Lettuce.**
- No. 789. *Kahoo*. Market, Gardez. Altitude 7,400 feet.
221937. *LOTUS CORNICULATUS* L. Fabaceae. **Birdsfoot trefoil.**
- No. 835. East base of Shibar Pass, Kabul. Altitude 8,700 feet. Small legume in a wet mountain meadow.
221938. *MALUS SYLVESTRIS* Mill. Malaceae. **Apple.**
- No. 729. Balkh, Mazar-i-Sharif. Red-striped fruit about 3 inches in diameter. Flavor good for an early apple.
221939. *MEDICAGO LUPULINA* L. Fabaceae. **Black medic.**
- No. 902. *Rishqeh-Alef*. Bamian, Kabul.
221940. *MELICA* sp. Poaceae.
- No. 752. Khairkana Pass, Kabul. Altitude 6,500 feet. Perennial bunchgrass, about 10 inches high.
221941. *MILIUM* sp. Poaceae.
- No. 769. Fifty-seven miles south of Kabul, north of Pass, Gardez. Altitude 8,400 feet. Well-grazed perennial bunchgrass.
221942. *MILIUM* sp.
- No. 815. North of Pass, about 61 miles south of Kabul, near Gardez. Altitude 9,000 feet. Perennial bunchgrass.



## 221899 to 221965—Continued

## 221943. MILIUM sp.

No. 922. *Tormorphie*. Garden Diwar, 43 miles on road to Panjab, Kabul. Altitude 10,500 feet. Well-grazed perennial bunchgrass.

## 221944. MILIUM sp.

No. 1011. Eighty-four miles west of Panjab, Kabul. Altitude 9,500 feet. Perennial bunchgrass.

## 221945. ORYZOPSIS sp. Poaceae.

No. 868. Band-i-Amir, Bamian, Kabul. Altitude 9,500 feet. Perennial bunchgrass.

## 221946. PAPAVER SOMNIFERUM L. Papaveraceae. Opium poppy.

No. 791. *Khash-Khash*. Market, Gardez. Altitude 7,400 feet.

## 221947. PHLEUM SUBULATUM (Savi.) Aschers. &amp; Graebn. Poaceae.

No. 850. West side of Shibar Pass, Kabul. Altitude 9,200 feet.

## 221948. POA sp. Poaceae.

No. 812. North of Pass, about 61 miles south of Kabul, near Gardez. Altitude 9,000 feet. Annual grass.

## 221949. POA sp.

No. 819. British Embassy Compound, Kabul. Altitude 6,000 feet.

## 221950. POA sp.

No. 864. Road to Band-i-Amir, Bamian, Kabul. Altitude 10,500 feet. Perennial bunchgrass.

## 221951. POA sp.

No. 882. Bamian, Kabul. Altitude 8,500 feet. Perennial pasture grass.

## 221952. POA sp.

No. 924. Garden Diwar, 43 miles on road to Panjab, Kabul. Altitude 10,500 feet. Well-grazed perennial bunchgrass.

## 221953. POLYPOGON sp. Poaceae.

No. 820. British Embassy Compound, Kabul. Altitude 6,000 feet. Annual grass fed to cattle.

## 221954. POLYPOGON sp.

No. 933. *Galcheh-Alf*. Road to Panjab, 130 miles west of the fork, Kabul. Altitude 8,500 feet. Well-grazed perennial bunchgrass.

## 221955. PUCCINELLIA sp. Poaceae.

No. 998. *Quaiq*. Panjab, Kabul. Altitude 9,000 feet. Perennial bunchgrass.

## 221956. PUCCINELLIA sp.

No. 1027. *Quaiq*. Thirty-four miles north of Panjab, Kabul. Altitude 8,500 feet. Well-grazed pasture grass in limy soil.

## 221957. RAPHANUS SATIVUS L. Brassicaceae. Radish.

No. 782. *Torob; Muli*. Market, Gardez. Altitude 7,400 feet.

## 221958. ROSA sp. Rosaceae.

No. 809. North of Pass about 61 miles south of Kabul, near Gardez. Altitude 9,000 feet. Dry mountain site.

## 221959. SECALE CEREALE L. Poaceae. Rye.

No. 974. *Jowder*. Shaherstan, Kabul. Altitude 7,400 feet. Used for bread.



## 221899 to 221965—Continued

221960. *SETARIA VIRIDIS* (L.) Beauv. Poaceae.

No. 936. *Orbosh*. Road to Panjab, 133 miles west of the fork, Kabul. Altitude 9,000 feet. Millet-like perennial grass cultivated for cattle feed.

221961 and 221962. *TRIFOLIUM REPENS* L. Fabaceae. White clover.

221961. No. 889. *Shaftal*; *Shibder*. Bamian, Kabul. Altitude 8,500 feet.

221962. No. 949. *Shaftal*. Twenty-seven miles south of Panjab, Kabul. Altitude 9,200 feet. Used for grazing.

221963 and 221964. *TRIFOLIUM RESUPINATUM* L. Persian clover.

221963. No. 837. *Saftel-Alef*. Base of Shibar Pass, East, Kabul. Eaten green by cattle.

221964. No. 895. *Shaftal*. Bamian, Kabul. Altitude 8,400 feet.

221965. *VICIA* sp. Fabaceae.

No. 880. *Livani-Moshung*. Bamian, Kabul. Altitude 8,500 feet. Wild in cultivated pea field.

221966. *SPARTIUM JUNCEUM* L. Fabaceae. Spanish-broom.

From France. Seeds presented by the Agricultural Attaché, American Embassy, Paris. Received Nov. 9, 1954.

221967 and 221968. *PRUNUS*. Amygdalaceae. Plum.

From France. Plants presented by George Delbard, Paris. Received Nov. 9, 1954.

221967. *Mirabelle Grosse de Nancy*.

221968. *Mirabelle Petite de Metz*.

## 221969 to 221976.

From Japan. Seeds presented by Paul Rusch, Director, Kiyosato Educational Experiment Project, Kiyosato. Received Nov. 9, 1954.

221969. *ARCTIUM* sp. Asteraceae.

*Sapporo Long*.

221970. *AVENA SATIVA* L. Poaceae. Oats.

*Kiyosato*.

221971. *BRASSICA* sp. Brassicaceae.

*Nozawana*.

221972 and 221973. *GLYCINE MAX* (L.) Merr. Fabaceae. Soybean.

221972. *Chakotsubu*.

221973. *Kiyosato*.

221974. *PHASEOLUS ANGULARIS* (Willd.) W. F. Wight. Fabaceae. Adzuki bean.

221975. *RAPHANUS SATIVUS* L. Brassicaceae. Radish.

221976. *ZEA MAYS* L. Poaceae. Corn.

*Choko 202*.

## 221977 to 221986.

From Afghanistan. Seeds collected by Earl E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 10, 1954.

Collected from June to July 1954.

**221977 to 221986—Continued**

221977 to 221985. *PRUNUS AMYGDALUS* Batsch. Amygdalaceae. Almond.

The local name for almond is *Badam*.

221977. No. 719. Market, Mazar-i-Sharif. Small, paper shell, first grade

221978. No. 720. Market, Mazar-i-Sharif. Paper shell, nearly first grade.

221979. No. 721. Market, Mazar-i-Sharif. Second grade.

221980. No. 722. Market, Mazar-i-Sharif. Regular hard-shell type.

221981. No. 723. Market, Kabul. Grown in Kandahar. Mixture.

221982. No. 724. Market, Kabul. Grown in Guldarehi.

221983. No. 725. Market, Kabul. Grown in Ghorbadi. Mixture.

221984. No. 726. Market, Kabul. Grown in Ghorbadi. Hard shell.

221985. No. 667. Market, Kandahar. Altitude 3,200 feet. Paper shell.

221986. *PRUNUS ARMENIACA* L. Apricot.

No. 727. *Zaraloo*. Market, Kabul. Altitude 6,000 feet.

**221987 to 222015. *POA PRATENSIS* L. Poaceae.**

**Kentucky bluegrass.**

From Germany. Seeds presented by Dr. Hildegard Noodt, Keil. Received Nov. 10, 1954.

221987. No. 82. 222002. No. 193.

221988. No. 88. 222003. No. 195.

221989. No. 90. 222004. No. 206.

221990. No. 106. 222005. No. 223.

221991. No. 114. 222006. No. 229.

221992. No. 115. 222007. No. 230.

221993. No. 118. 222008. No. 1.

221994. No. 122. 222009. No. 9.

221995. No. 123. 222010. No. 12.

221996. No. 156. 222011. No. 32.

221997. No. 157. 222012. No. 34.

221998. No. 158. 222013. No. 38.

221999. No. 167. 222014. No. 40.

222000. No. 191. 222015. No. 42.

222001. No. 192.

**222016 to 222021. *SACCHARUM*. Poaceae.**

**Sugarcane.**

From Barbados. Cuttings presented by the Central Sugar Cane Breeding Station, Bridgetown. Received Nov. 10, 1954.

Grown at the Groves Agricultural Experiment Station.

222016. B 39254. 222019. B 45211.

222017. B 45170. 222020. B 45236.

222018. B 45184. 222021. B 45266.

**222022 and 222023.**

From the Canal Zone. Seeds presented by the Canal Zone Experiment Gardens, Summit. Received Nov. 10, 1954.

222022. *COCOS NUCIFERA* L. *Phoenicaceae*. Coconut.

222023. *CYSTOSTACHYS RENDA* Blume. *Phoenicaceae*. Palm.

**222024. CYTISUS SCOPARIUS (L.) Link. Fabaceae. Scotch-broom.**

From France. Seeds presented by the Agricultural Attaché, American Embassy, Paris. Received Nov. 9, 1954.

**222025. PIPER CUBEBA L. f. Piperaceae.**

From Indonesia. Cuttings presented by F. P. Hubert, American Embassy, Djakarta. Received Nov. 10, 1954.

**222026 to 222086.**

From Afghanistan. Seeds cultivated by Earl E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 12, 1954.

Collected from July to August 1954.

222026. *HIBISCUS ESCULENTUS* L. *Malvaceae*. Okra.

No. 733. *Pendi*; *Bamieh*. Market, Kabul. Altitude 6,000 feet.

222027. *ELYMUS DAHURICUS* Turcz. *Poaceae*.

No. 906. *Moigow*. Bulola, Kabul. Altitude 8,000 feet. Perennial bunchgrass.

222028. *AGROPYRON REPENS* (L.) Beauv. *Poaceae*.

No. 913. Road to Panjab, 7 miles from the fork, Kabul. Altitude 7,500 feet. Perennial bunchgrass.

222029. *AGROPYRON* sp.

No. 1025. Twenty-seven miles north of Panjab, Kabul.

222030 and 222031. *AGROSTIS ALBA* L. *Poaceae*. Redtop.

222030. No. 824. Gorbant, Kabul. Altitude 7,300 feet. Perennial bunchgrass; in wet area.

222031. No. 840. East base of Shibar Pass, Kabul. Altitude 8,700 feet. Perennial bunchgrass, growing in wet meadow.

222032. *AMMOTHAMMUS LEHMANNII* Bunge. *Fabaceae*.

No. 730. Herat.

222033. *ASTRAGALUS* sp. *Fabaceae*.

No. 758. Khairkana Pass, Kabul.

222034. *ASTRAGALUS* sp.

No. 761. Fifty-seven miles south of Kabul, north of Pass, Gardez. Altitude 8,400 feet. Spiny legume, well browsed.

222035. *ASTRAGALUS* sp.

No. 873. Band-i-Amir, Bamian, Kabul. Altitude 9,500 feet. Spiny, pinnate-leaved legume.

222036. *ASTRAGALUS* sp.

No. 901. *Rishqeh-Alef*. Bamian, Kabul. Altitude 8,200 feet. Small wild legume.

222037. *ASTRAGALUS* sp. *Fabaceae*.

No. 1028. Thirty-four miles north of Panjab, Kabul. Altitude 8,500 feet. Pinnate-leaved legume, well grazed.



## 222026 to 222086—Continued

222038. *ASTRAPHAXIS* sp. Polygonaceae.

No. 1023. *Karwankosh*. Twenty-three miles north of Panjab, Kabul. Altitude 9,500 feet. Spiny shrub, slightly browsed.

222039. *BROMUS* sp. Poaceae.

No. 765. Fifty-seven miles south of Kabul, north of Pass, Gardez. Altitude 8,400 feet.

222040. *BROMUS* sp.

No. 766. Fifty-seven miles south of Kabul, north of Pass, Gardez. Altitude 8,400 feet. Annual grass.

222041. *CALAMAGROSTIS PSEUDOPHRAGMITES* (Hall f.) Koel. Poaceae.

No. 828. Gorband, Kabul. Altitude 7,300 feet. Perennial bunchgrass up to 4 feet tall, growing in wet gravel.

222042. *COTONEASTER* sp. Malaceae.

No. 813. North of Pass, about 61 miles south of Kabul, near Gardez. Altitude 9,000 feet.

222043 to 222046. *CUMINUM CYMINUM* L. Apiaceae. Cumin.

222043. No. 783. *Zirah-i-Safafe*. Market, Gardez. Altitude 7,400 feet. White seeds.

222044. No. 784. *Zirah-i-Siah*. Market, Gardez. Altitude 7,400 feet. Wild; black seeds.

222045. No. 942. *Zireh-i-Safade*. Panjab, Kabul. Altitude 9,000 feet. Cultivated, irrigated; shipped for export to foreign countries.

222046. No. 943. *Zireh-i-Siah*. Panjab, Kabul. Altitude 9,000 feet. Wild, from the mountains.

222047. *CYNODON DACTYLON* (L.) Pers. Poaceae. Bermuda grass.

No. 968. *Pai Morghek*. Eighty miles south of Panjab, Kabul. Altitude 7,100 feet.

222048. *ELYMUS* sp. Poaceae.

No. 774. Sixty-three miles south of Kabul, south of Pass, Gardez. Altitude 9,100 feet. Perennial bunchgrass.

222049. *ELYMUS* sp.

No. 995. Panjab, Kabul. Altitude 9,000 feet. Perennial bunchgrass.

222050. *ELYMUS* sp.

No. 1030. Band-i-Amir, Bamian, Kabul. Altitude 9,500 feet. Perennial bunchgrass.

222051. *EPHEDRA* sp. Gnetaceae.

No. 814. North of Pass, about 61 miles south of Kabul, near Gardez. Altitude 9,000 feet. Shrub; well browsed.

222052. *EREMURUS* sp. Liliaceae.

No. 756. Khairkana Pass, Kabul. Altitude 6,500 feet.

222053. *EREMURUS* sp.

No. 763. Fifty-seven miles south of Kabul, north of Pass, Gardez. Altitude 8,400 feet. Up to 5 feet in height.

222054. *EREMURUS* sp.

No. 806. Pass about 62 miles south of Kabul, near Gardez. Altitude 9,400 feet.



## 222026 to 222086—Continued

222055. EREMURUS sp.

No. 845. Shibar Pass, Kabul. Altitude 9,500 feet.

222056. EREMURUS sp.

No. 955. Fifty miles south of Panjab, Kabul. Altitude 10,400 feet. Large plant up to 5 feet tall.

222057. FERULA sp. Apiaceae.

No. 937. *Baldergho*. Road to Panjab, 135 miles west of fork, Kabul. Large plant up to 6 feet in height; leaves cut and dried for winter cattle feed.

222058. FERULA sp.

No. 953. *Kamai*. Forty-three miles south of Panjab, Kabul.

222059. LACTUCA sp. Cichoriaceae.

No. 954. Forty-three miles south of Panjab, Kabul. Altitude 9,200 feet.

222060. LENS CULINARIS Medic. Fabaceae.

Lentil.

No. 973. *Adas*. Shaherstan, Kabul. Altitude 7,400 feet.

222061 and 222062. LOLIUM TEMULENTUM L. Poaceae.

Darnel.

222061. No. 836. East base of Shibar Pass, Kabul.

222062. No. 1024. *Sorkh-Owil*. Twenty-three miles north of Panjab, Kabul. Altitude 7,500 feet.

222063. LOTUS TENUIS Wald. &amp; Ket. Fabaceae.

No. 830. East of Shibar Pass, Kabul. Altitude 8,000 feet.

222064 and 222065. MEDICAGO LUPULINA L. Fabaceae.

Black medic.

222064. No. 818. British Embassy Compound, Kabul. Altitude 6,000 feet.

222065. No. 827. Gorbant, Kabul.

222066. ONOBRYCHIS sp. Fabaceae.

No. 753. Khairkana Pass, Kabul. Altitude 6,500 feet. Well-grazed legume.

222067. ONOBRYCHIS sp.

No. 762. Fifty-seven miles south of Kabul, north of Pass, Gardez. Well-grazed legume.

222068. ONOBRYCHIS sp.

No. 967. *Sorkh-Gol*. Eighty miles south of Panjab, Kabul. Altitude 7,100 feet. Eaten by cattle.

222069 to 222071. PISUM SATIVUM L. Fabaceae.

Pea.

222069. No. 886. *Moshung*. Lower slopes of Kuh-i-Baba, Bamian, Kabul. Altitude 9,200 feet.222070. No. 926. *Moshong*. Garden Diwar, 43 miles on road to Panjab, Kabul. Altitude 10,500 feet.222071. No. 1008. *Moshong*. Lal, 66 miles west of Panjab, Kabul. Altitude 9,200 feet.

222072. POA BULBOSA L. Poaceae.

No. 767. Fifty-seven miles south of Kabul, north of Pass, Gardez. Altitude 8,400 feet.

222073. POA sp.

No. 839. East base of Shibar Pass, Kabul. Altitude 8,700 feet. Perennial bunchgrass, growing in wet meadow.

**222026 to 222086—Continued**

222074. *POLYPOGON* sp. Poaceae.

No. 997. *Took*. Panjab, Kabul. Altitude 9,000 feet.

222075. *PRANGOS PABULARIA* Lindl. Apiaceae.

No. 952. *Ghighan*. Forty-three miles south of Panjab, Kabul. Altitude 9,200 feet. Used as green forage for sheep, goats and cows. Horses and donkeys are reported to go blind when they eat it either green or dried.

222076. *SALVIA* sp. Menthaceae.

No. 1019. *Gandeh-Baghel*. Panjab, Kabul. Altitude 9,000 feet.

222077. *SCIRPUS COMPRESSUS* Pers. Cyperaceae.

No. 928. *Qaiq-i-Siah*. Garden Diwar, 43 miles on road to Panjab, Kabul, Altitude 10,500 feet. Well-grazed sedge; wet meadow.

222078. *SCORZONERA* sp. Asteraceae.

No. 846. *Shibar* Pass, Kabul. Altitude 9,500 feet.

222079. *SORGHUM* sp. Poaceae.

No. 991. *Kamerlok*. Zarani, Kabul. Altitude 7,250 feet.

222080. *STIPA* sp. Poaceae.

No. 771. Sixty-two miles south of Kabul, south of Pass, Gardez. Altitude 9,100 feet. Perennial grass.

222081. *STIPA* sp.

No. 844. *Shibar* Pass, Kabul. Altitude 9,500 feet. Perennial bunch-grass.

222082. *STIPA* sp.

No. 908. *Ghigh*. Bulola, Kabul. Altitude 8,000 feet. Perennial bunch-grass, up to 7 feet in height.

222083. *TARAXACUM* sp. Cichoriaceae.

No. 930. Road to Panjab, 118 miles west of the fork, Kabul. Altitude 9,500 feet.

222084. *TRIFOLIUM REPENS* L. Fabaceae.

White clover.

No. 900. *Chamani-Shaftal*. Bamian, Kabul. Altitude 8,400 feet.

222085. *TRIFOLIUM RESUPINATUM* L.

Persian clover.

No. 1035. *Shaftal*. Market, Kabul. Altitude 6,000 feet.

222086. *TRIGONELLA* sp. Fabaceae.

No. 847. *Shibar* Pass, Kabul. Altitude 9,500 feet. Perennial, yellow flowered; well grazed.

**222087 and 222088.**

From Indonesia. Seeds presented by F. P. Hubert, Foreign Office of Agriculture, American Embassy, Djakarta. Received Nov. 15, 1954.

222087. *MYRISTICA FRAGRANS* Houtt. Myristicaceae.

Nutmeg.

222088. *PIPER CUBERA* L.f. Piperaceae.

**222089. *CASTANEA* sp. Fagaceae.**

Chestnut.

From Korea. Collected by Kenneth D. Doak, Wonju, Kongwon-do. Received Nov. 16, 1954.

From the mountains above Bulonmyon, 23 miles northwest of Wonfu.

**222090. SOLANUM TUBEROSUM L. Solanaceae. Potato.**

From the Netherlands. Tubers received from the Institute for Potato Breeding, Wageningen. Received Nov. 16, 1954.

*Triumf.*

**222091. ESENBECKIA HARTMANII Robins. & Fern. Rutaceae.**

From Mexico. Collected by H. S. Gentry, Agricultural Explorer, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 16, 1954.

No. 14384. *Momoa*. Los Cerritos, Navajoa. Shrub 12 feet high.

**222092 to 222130.**

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 17, 1954.

Collected from July to August 1954.

**222092. ALLIUM PORRUM L. Liliaceae. Leek.**

No. 793. *Gandanah*. Market, Gardez. Altitude 7,400 feet.

**222093. CANNABIS SATIVA L. Urticaceae. Hemp.**

No. 803. *Bhang*. Market, Gardez. Altitude 7,400 feet. Seeds roasted and eaten by children as nuts.

**222094 and 222095. CICER ARIETINUM L. Fabaceae. Chickpea.**

222094. No. 966. Sixty-three miles south of Panjab, Kabul. Altitude 8,100 feet. Made into flour and used for bread.

222095. No. 978. *Nakhod*. Shaherstan, Kabul. Altitude 7,400 feet.

**222096 to 222098. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.**

222096. No. 754. Market, Kabul. Grown in Kandahar. Fruits elongate, yellow; flesh yellowish white with excellent flavor.

222097. No. 994. Zarani, Kabul. Altitude 7,250 feet. Fruits yellow-green, oval, with peach-colored flesh.

222098. No. 1044. Market, Kabul. Altitude 6,000 feet. Fruits green with green flesh; oval; flavor good.

**222099. CUCUMIS SATIVUS L. Cucumber.**

No. 798. *Khiar*; *Badreng*. Market, Gardez. Altitude 7,400 feet.

**222100. CUCURBITA PEPO L. Cucurbitaceae. Pumpkin.**

No. 735. Fruits round, flesh white.

**222101. CYDONIA OBLONGA Mill. Malaceae. Quince.**

No. 746. *Behie*. Market, Kabul. Altitude 6,000 feet. Fruits large, light-yellow and sweet.

**222102. FESTUCA ELATIOR L. Poaceae. Meadow fescue.**

No. 829. *Gorband*, Kabul. Altitude 7,300 feet. Perennial bunchgrass growing in wet gravel.

**222103 to 222105. FESTUCA KRONENBERGII Hack.**

222103. No. 848. Shibar Pass, Kabul. Altitude 9,500 feet. Perennial bunchgrass.

222104. No. 885. *Coda*. Lower north slopes of the Kuh-i-Baba Range, Bamian. Altitude 9,000 feet. Perennial bunchgrass on dryland. Eaten mostly by horses.

222105. No. 920. *Coda*. Kotal-i-Unat, 33 miles on the road to Panjab, Kabul. Altitude 7,500 feet. Perennial mountain grass.



## 222092 to 222130—Continued

- 222106 and 222107. *Gossypium*. Malvaceae. Cotton.  
 222106. No. 982. *Ponbeh-Daveh-i-Riso*. Shaherstan, Kabul. Altitude 7,400 feet. Russian cotton planted in March, ripening in September.  
 222107. No. 983. *Ponbeh-Baneh-i-Makahi*. Shaherstan, Kabul. Altitude 7,400 feet. Mecca cotton, planted in March, ripening in September.
222108. *Hordeum* sp. Poaceae. Barley.  
 No. 921. *Jow*. Kotal-i-Unat, 34 miles west of fork on road to Panjab, Kabul. Altitude 10,000 feet. Cultivated and used for bread and for cattle feed.
222109. *Iris* sp. Iridaceae.  
 No. 912. Twenty miles south of Kabul. Altitude 7,500 feet. Spring-blooming.
222110. *Iris* sp.  
 No. 1001. *Kara-Koda*. Twenty-seven miles west of Panjab, Kabul. Altitude 9,200 feet.
- 222111 to 222113. *Medicago sativa* L. Fabaceae. Alfalfa.  
 222111. No. 787. *Rishqeh*. Market, Gardez. Altitude 7,400 feet.  
 222112. No. 894. *Rishqeh*. Bamian, Kabul. Altitude 8,400 feet.  
 222113. No. 1034. *Rishqeh*. Market, Kabul. Altitude 6,000 feet. Irrigated, planted in fall and harvested 6 times a year.
222114. *Melilotus officinalis* (L.) Lam. Fabaceae. Yellow sweetclover.  
 No. 825. Gorband, Kabul. Altitude 7,300 feet.
222115. *Nigella sativa* L. Ranunculaceae. Black cumin.  
 No. 785. *Siah-Donah*. Market, Gardez. Altitude 7,400 feet.
222116. *Phaseolus aureus* Roxb. Fabaceae. Mung bean.  
 No. 801. *Mash; Moi*. Market, Gardez. Altitude 7,400 feet.
222117. *Pisum sativum* L. Fabaceae. Pea.  
 No. 1037. *Moshong*. Market, Kabul. Altitude 6,000 feet.
222118. *Prunus armeniaca* L. Amygdalaceae. Apricot.  
 No. 745. *Zardaloo*. Market, Kabul. Altitude 6,000 feet. Medium-sized fruit, skin greenish with a red blush; flavor good.
222119. *Rosa* sp. Rosaceae. Rose.  
 No. 810. North of Pass about 61 miles south of Kabul, near Gardez. Altitude 9,000 feet. Wild rose from dry mountainside.
222120. *Taraxacum* sp. Cichoriaceae.  
 No. 1002. Thirty-four miles west of Panjab, Kabul. Altitude 9,600 feet.
- 222121 to 222123. *Trifolium resupinatum* L. Fabaceae. Persian clover.  
 222121. No. 788. *Shabder; Shaftal*. Market, Gardez. Altitude 7,400 feet.  
 222122. No. 980. *Shaftal*. Shaherstan, Kabul. Altitude 7,400 feet.  
 222123. No. 990. *Shaftal*. Zarani, Kabul. Altitude 7,250 feet.
222124. *Trigonella foenum-graceum* L. Fabaceae. Fenugreek.  
 No. 1036. *Olbeh*. Market, Kabul. Altitude 6,000 feet.



**222092 to 222130—Continued**

222125 to 222127. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.

222125. No. 987. *Gandom-i-Safadek*. Zarani, Kabul. Altitude 7,250 feet.

222126. No. 1016. *Gandom-i-Safadek*. Doletiar Chighcheran, 120 miles west of Panjab, Herat. Altitude 8,000 feet. Irrigated spring wheat.

222127. No. 1017. *Gandom-i-Siahkhosheh*. Doletiar-Chighcheran, 120 miles of Panjab, Herat, Kabul. Altitude 8,000 feet. Dryland wheat.

222128 and 222129. *VICIA FABA* L. Fabaceae. Broadbean.

222128. *Baqoli*. Maidan, on road to Panjab, Kabul. Altitude 7,500 feet.

222129. *Baqoli*. Market, Kabul. Altitude 6,000 feet.

222130. *EREMOPOA PERSICA* (Trin.) Roshev. Poaceae.

No. 768. Fifty-seven miles south of Kabul, north of Pass, Gardez. Small, fine, paniculate grass; grows to 6 inches high.

**222131. *TRIFOLIUM DUBIUM* Sibth. Fabaceae. Small hop clover.**

From England. Seeds presented by Woods, Sadd, Moore and Co., Ltd., Norwich, Norfolk. Received Nov. 18, 1954.

*Giant Red Suckling.*

**222132. *ROBINIA PSEUDOACACIA* f. *SEMPERFLORENS* Carr. Fabaceae.**

From Maryland. Plant growing at the United States Plant Introduction Garden, Glenn Dale. Numbered Nov. 18, 1954.

Plant presented by the Pellett Garden, Atlantic, Iowa. Probably originally from the Royal Botanic Garden, Kew, England.

**222133 to 222136. *CAPSICUM FRUTESCENS* L. Solanaceae.**

**Redpepper.**

From Spain. Seeds presented by the Agricultural Research Center, Madrid. Received Nov. 18, 1954.

222133. *Albar*.

222135. *Ramillete*.

222134. *Bola*.

222136. *Triscascos*.

**222137 and 222138.**

From Algeria. Seeds presented by D'Pierre Simonneau, Perregaux, Oran. Received Nov. 18, 1954.

222137. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae.

**Watermelon.**

*Pasteque.*

222138. *CUCUMIS MELO* L. Cucurbitaceae.

**Muskmelon.**

*Malacara.*

**222139 to 222176.**

From Florida. Plants growing at the United States Plant Introduction Garden, Coconut Grove. Numbered Nov. 18, 1954.

Origin of plants indicated.

222139. *ACACIA CYANOPHYLLA* Lindl. Mimosaceae.

From D. J. McSwiney, Fort Lauderdale. A shrub up to 18 feet high with drooping branches and glabrous, lanceolate phyllodia. The flowers are numerous, large, and yellow; grouped in 3-5 heads borne on short racemes. Native to Australia.

## 222139 to 222176—Continued

222140. *ALANGIUM CHINENSE* (Lour.) Rehd. Cornaceae.

Presented by E. A. Menninger, Stuart. A tree up to 60 feet high with variable foliage and clusters of small, whitish, fragrant flowers. Capable of rapid growth. Native to southern China.

222141. *ALANGIUM SALVIFOLIUM* (L.f.) Wangerin.

Presented by E. A. Menninger, Stuart. A shrub or small tree with soft gray pubescence. The small yellow flowers are in small axillary clusters. Native to northwestern India.

222142. *APHELANDRA SINCLAIRIANA* Nees. Acanthaceae.

A shrub 6–15 feet high with obovate entire leaves, vivid orange-red bracts and pale or purplish red tubular flowers. Native to Panama where it grows in the wet forests of the Atlantic side.

222143. *ARDISIA ACUMINATA* Willd. Myrsinaceae.

From E. A. Menninger, Stuart. An evergreen shrub up to 7 feet high with oblong acuminate leaves 4–5 inches long; small white flowers in axillary clusters. Native to the Guianas.

222144. *BRACHYCHITON ACERIFOLIUM* F. Muell. Sterculiaceae.

From the Forestry Department, Kenya. A tree to 35 feet high with dark-green, shining, maple-like leaves 6–10 inches wide. The flowers are scarlet, bell-shaped and hang from the tree in large clusters. Native to Australia.

222145. *BRUNFELSIA LATIFOLIA* (Pohl) Benth. Solanaceae.

From E. A. Menninger, Stuart. Dwarf tree with slender spreading branches and elliptic leaves 2–4 inches long, glabrous above. Flowers are borne in terminal clusters or short axillary few-flowered cymes, pale violet fading to white, and sweet scented. Native to tropical America.

222146. *CALLISTEMON SALIGNUS* (J. E. Smith) Sweet. Myrtaceae.

A tall shrub or small tree to 40 feet high with distinctly penninerved, lanceolate leaves 1–3 inches long and small flowers in spikes 1–2 inches long, with bright-yellow stamens usually not more than  $\frac{1}{2}$  inch. Native to Australia.

222147. *CASSIA ANGULATA* Vog. Caesalpinaceae.

A Brazilian tree with compound leaves and yellow flowers in axillary racemes.

222148. *CASSIA BICAPSULARIS* L.

A tropical American evergreen shrub 4–7 feet high with pinnate leaves and yellow flowers. From Brazil.

222149. *CASSIA HOOKERIANA* Gill.

A shrub with pinnate leaves composed of 8 pairs of oblong leaflets, and small racemes of yellow flowers. Native to Chile.

222150. *CASSIA MONTANA* Heyne.

A shrub with slender glabrous branchlets, 20–30 leaflets, membranous and firm. Flowers in dense axillary and terminal corymbs. Native to India.

222151. *CLEISTANTHUS COLLINUS* (Roxb.) Benth. & Hook. Euphorbiaceae.

A small tree with very hard wood and spreading, rigid, twiggy, smooth or pustulate, branches. Flowers small, 3–6 per cluster. Native to India.

## 222139 to 222176—Continued

222152. *CORDIA ABYSSINICA* R. Br. Boraginaceae.

A large tree, 25–30 feet in height, with a dense roundish head, and large oval leaves. The showy white flowers are in terminal clusters, and the edible reddish-brown fruits are gelatinous, and more or less astringent. Native to Ethiopia, at altitudes of about 6,000 feet.

222153. *CROTON MACROSTACHYS* Hochst. Euphorbiaceae.

An arborescent shrub with herbaceous branches, alternate, long-stemmed oblong leaves, and inconspicuous flowers in long clusters. Native to Ethiopia.

222154. *DALBERGIA LATIFOLIA* Roxb. Fabaceae.

“East Indian Rosewood” is next in importance to teak as an Indian wood. It is a timber tree of rapid growth producing heavy, hard wood of varying shades of rose. Used in the manufacture of fine furniture and tool handles. Native to India.

222155. *DATURA CHLORANTHA* Hook. Solanaceae.

A small tree or bush with very fragrant double yellow flowers, followed by pods covered with blunt spines. Habitat unknown.

222156. *DOLICHANDRONE ALBA* (Sim.) Sprague. Bignoniaceae.

A small tree with pinnate leaves and showy, white, fragrant flowers in terminal or racemes. Native to Portuguese East Africa.

222157. *ENTEROLOBIUM CONTORTISILIQUUM* (Vell.) Morong. Fabaceae.

A large tree with bipinnate leaves made up of 2–5 pinnae each bearing 10–12 pairs of falcate oblong leaflets and large heads of greenish flowers followed by leathery kidney-shaped pods. Native to Brazil.

222158. *ERYTHRINA CAFFRA* Thunb. Fabaceae.

A tree 30–40 feet high with prickly branches, trifoliate leaves with broadly ovate leaflets and scarlet flowers borne in dense, many-flowered racemes. Native to South Africa.

222159. *ERYTHRINA VESPERTILIO* Benth.

Usually a small tree with prickly branches and broad 3-lobed leaves. Flowers red, in numerous, erect, showy racemes. The wood is extremely light and springy. Native to Australia.

222160. *GARDENIA CARINATA* Wall. Rubiaceae.

From E. A. Menninger, Stuart. A deciduous tree 25–30 feet high with stout branches, resinous buds and shiny glabrous leaves. Flowers sessile, terminal, white, changing to yellow; fragrant.

222161. *GREYIA RADLKOFERI* Szyszyl. Melianthaceae.

A small tree or shrub, with alternate roundish leaves, and showy red flowers. Native to South Africa.

222162. *GREYIA SUTHERLANDII* Hook. & Harv.

Small tree with thick naked branches and light-colored bark. Leaves 2–3 inches long, are clustered at the ends of branches. Flowers borne in large spikes, bright crimson. Native to South Africa.

222163. *LIVISTONA ROTUNDIFOLIA* (Lam.) Mart. Phoeniaceae. Palm.

An erect pinnate-leaved palm, about the same size as the coconut palm. The hard durable wood is used for general construction. Native to tropical Asia.

222164. *MARKHAMIA* sp. Bignoniaceae.

A tree up to 30–40 feet high with compound leaves and large yellow to whitish flowers. Native to eastern tropical Africa.



## 222139 to 222176—Continued

222165. *MELALEUCA ERICIFOLIA* J. E. Smith. Myrtaceae.

A tall shrub or small tree adapted to swampy ground. Leaves scattered, numerous, linear, rarely over  $\frac{1}{2}$  inch long. Flowers yellowish or rarely red, small, in nearly globular terminal heads, the perfect ones in oblong and cylindrical spikes  $\frac{1}{2}$ –1 inch long. Native to Australia.

222166. *MUSA ENSETE* Gmel. Musaceae.

Attractive flowering single-trunked Abyssinian banana growing up to 40 feet tall with seeds as large as cacao beans. Leaves long, upright, beautifully colored. Trunk 3 feet in diameter.

222167. *MUSSAENDA INCANA* Wall. Rubiaceae.

An erect herbaceous shrub 2–3 feet high covered with soft shining hairs. Leaves stiff, ovate 5–6 inches long with leggy, white, pubescent calyx lobe. Native to tropical Himalayas.

222168. *PETREA ARBOREA* H.B.K. Verbenaceae.

A vigorous tropical climber with oblong leaves about 4 inches long and harsh to the touch. Trusses of blue star-shaped flowers appear most profusely in spring and continue sparsely throughout the season. Native to Colombia.

222169. *POLYALTHIA CERASOIDES* Benth. & Hook. Annonaceae.

An evergreen tree with light-gray bark and lanceolate leaves 3–8 inches long. The brownish-green flowers are succeeded by small dark-red fruits the size of a cherry. Native to eastern India.

222170. *PTEROCARPUS ANGOLENSIS* DC. Fabaceae.

An unarmed tree with alternate, unequally pinnate leaves, axillary or terminal racemes of flowers, and one-seeded almost round pods. The wood is reddish and the bark is high in tannin. Native to west-central Africa.

222171. *RUTTYA FRUTICOSA* Lindau. Acanthaceae.

A shrubby evergreen, 3–5 feet high. It has narrow, entire leaves 1–2 inches long, and purple flowers 1 inch long in short cymes. Native to eastern tropical Africa.

222172. *STEPHEGYNE PARVIFOLIA* Korth. Rubiaceae.

A tree with leaves 2–6 inches long, either oval or roundish, and small heads of funnel-shaped flowers. Native to tropical Himalayas.

222173. *TECOMA CHRYSOTRICHIA* Mart. Bignoniaceae.

From E. A. Menninger, Stuart. A small to medium-sized tree growing in the open or partial shade. Canary yellow flowers, with red-streaked throats, open before leaves appear in spring. Native to Brazil.

222174. *TREMA GUINEENSIS* Priemer. Ulmaceae.

A shrub or tree with branchlets densely hairy and simple leaves about 4 inches long by 2 inches wide. Inflorescences numerous, short, axillary, dense-flowered, greenish or reddish. From Mozambique.

222175. *TRIPLOCHITON SCLEROXYLON* Schum. Malvaceae.

From China.

222176. *XANTHORRHOEA ARBOREA* R. Br. Liliaceae.

A large woody perennial with a stem several feet high and 6–9 inches in diameter. The narrow grass-like leaves, in a dense tuft at the top of the stem, are 3–4 feet long but only about  $\frac{1}{4}$  inch wide. The small whitish flowers are in a long spike up to 5 feet high. Native to Australia.



**222177. VICIA DASYCARPA Ten. Fabaceae.**

From France. Seeds presented by the Station Experimentale Mas Vincent, Nîmes. Received Nov. 18, 1954.

**222178. COFFEA LIGUSTROIDES S. Moore. Rubiaceae.**

From Southern Rhodesia. Seeds obtained through Dr. Branquinho d'Oliveira, Estação Agronômico Nacional, Sacaven, Portugal. Received Nov. 18, 1954.

No. 287. C. R. Bates, Chirinda Forest, near Chipingo.

**222179 to 222218.**

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 18, 1954.

Collected from July to September 1954.

**222179. AGROPYRON REPENS (L.) Beauv. Poaceae.**

No. 945. *Quaiag*. Twenty-seven miles south of Panjab, Kabul. Altitude 9,200 feet. Wild perennial used for green forage, and cut and dried for winter feed.

**222180. ASTRAGALUS sp. Fabaceae.**

No. 757. Khairkana Pass, Kabul. Altitude 6,500 feet.

**222181. ASTRAGALUS sp.**

No. 772. Sixty miles south of Kabul, south of Pass, Gardez. Altitude 9,100 feet. Spiny; pod inflated.

**222182. ASTRAGALUS sp.**

No. 842. Shibar Pass, Kabul. Altitude 9,500 feet.

**222183. BRASSICA RAPA L. Brassicaceae. Turnip.**

No. 781. *Shalghem*. Market, Gardez.

**222184. CITRULLUS VULGARIS Schrad. Cucurbitaceae. Watermelon.**

No. 755. Market, Kabul. Grown in Kandahar. Fruits green; flesh red; flavor excellent.

**222185 and 222186. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.**

222185. No. 750. Market, Kabul. Grown in Mazar-i-Sharif. Fruits green, with reticulate white lines; flesh green-white; flavor excellent.

222186. No. 993. Shaherstan, Kabul. Altitude 7,400 feet. Fruits green-yellow; flesh peach colored; flavor fair.

**222187. CUCUMIS MELO var. FLEXUOSUS (L.) Naud.**

No. 736. *Tareh*; *Khiar-i-Chamber*. Market, Kabul. Altitude 6,000 feet. Fruits light green, growing to 3 feet in length; eaten both raw and cooked.

**222188. CUCURBITA MAXIMA Duchesne. Cucurbitaceae. Squash.**

No. 737. Fruits round, orange; flesh white.

**222189. EREMURUS sp. Liliaceae.**

No. 807. Pass about 60 miles south of Kabul, near Gardez. Altitude 9,400 feet. Plant grows 5 feet high; capsules smooth, divergent.

**222190. EREMURUS sp.**

No. 860. Road to Band-i-Amir, Bamian, Kabul. Altitude 9,700 feet.

**222191. EREMURUS sp.**

No. 875. Band-i-Amir, Bamian, Kabul. Altitude 9,500 feet.

## 222179 to 222218—Continued

222192. *FERULA* sp. Apiaceae.

No. 944. *Baldergho*. Twenty-seven miles south of Panjab, Kabul. Altitude 9,200 feet. Both cultivated and wild, harvested and dried for horse feed.

222193. *LOTUS CORNICULATUS* L. Fabaceae. Birdsfoot trefoil.

No. 960. Fifty-five miles south of Panjab, Kabul. Altitude 8,500 feet. Wild lotus, used for forage.

222194 to 222197. *MEDICAGO LUPULINA* L. Fabaceae.222194. No. 739. *Bandak*. Kabul. Altitude 6,000 feet.

222195. No. 817. North of Pass, about 57 miles south of Kabul, near Gardez. Altitude 8,400 feet.

222196. No. 831. East of Shibar Pass, Kabul. Altitude 8,000 feet.

222197. No. 826. Gorbant, Kabul. Altitude 7,300 feet.

222198 and 222199. *MEDICAGO SATIVA* L. Alfalfa.

222198. No. 779. Sixty-nine miles south of Kabul, south of Pass, Gardez. Altitude 8,400 feet.

222199. No. 832. East of Shibar Pass, Kabul. Altitude 8,000 feet.

222200. *ONOBRYCHIS* sp. Fabaceae.

No. 874. Band-i-Amir, Bamian, Kabul. Altitude 9,500 feet.

222201. *PANICUM MILIACEUM* L. Poaceae. Proso.No. 749. *Arzan*. Kabul. Altitude 6,000 feet.222202. *PHASEOLUS VULGARIS* L. Fabaceae. Common bean.No. 734. *Lobia-i-Surkh*. Market, Kabul. Grown in Jalalabad.222203. *LATHYRUS SATIVUS* L. Fabaceae.No. 859. *Pateque*. Bamian, Kabul. Altitude 8,300 feet.222204. *PRUNUS AMYGDALUS* Batsch. Amygdalaceae. Almond.

No. 979. *Badam-Sangi*. Shaherstan, Kabul. Altitude 7,400 feet. Hard shelled almond.

222205. *PRUNUS ARMENIACA* L. Apricot.

No. 876. *Zardaloo*. Shaherstan, Kabul. Altitude 7,400 feet. Fruits yellow, juicy, soft, about 1½ inches in diameter.

222206. *PRUNUS* sp.

No. 760. Fifty-seven miles south of Kabul, north of Pass, Gardez. Altitude 8,400 feet.

222207. *RAPHANUS SATIVUS* L. Brassicaceae. Radish.

No. 747. *Shersham*. Kabul. Altitude 6,000 feet. Seeds yield oil for lighting.

222208. *ROSA* sp. Rosaceae. Rose.

No. 770. Fifty-seven miles south of Kabul, north of Pass, Gardez. Altitude 8,400 feet. Thorny bush up to 3 feet high.

222209. *STIPA* sp. Poaceae.

No. 871. Band-i-Amir, Bamian, Kabul. Altitude 9,500 feet. Perennial bunchgrass.

222210. *TRIFOLIUM REPENS* L. Fabaceae. White clover.No. 878. *Shaftal*. Bamian, Kabul. Altitude 8,400 feet.

**222179 to 222218—Continued**

222211. *TRIGONELLA* sp. Fabaceae.

No. 872. Band-i-Amir, Bamian, Kabul. Altitude 9,500 feet.

222212. *TULIPA* sp. Liliaceae.

**Tulip.**

No. 805. Pass about 62 miles south of Kabul, near Gardez. Altitude 9,400 feet.

222213 to 222215. *VICIA ERVILIA* Willd. Fabaceae.

222213. No. 732. *Shakhel*. Market, Kabul. Altitude 6,000 feet. Both plant and seeds eaten by cattle.

222214. No. 938. *Shakhel*. Kehm-i-Panjab, Panjab, Kabul. Altitude 8,800 feet. Seeds boiled, ground and mixed with wheat flour for bread. Green and dried plants fed to cattle.

222215. No. 1039. *Shakhel*. Market, Kabul. Altitude 6,000 feet. Seeds boiled, ground and mixed with wheat flour for bread.

222216. *VICIA FABA* L.

**Broadbean.**

No. 962. *Baqoli*. Sixty-three miles south of Panjab, Kabul.

222217. *VICIA* sp.

No. 972. *Moshong*. Shaherstan, Kabul. Altitude 7,400 feet. Seeds ground for flour and used with rye and wheat for bread.

222218. *ZEA MAYS* L. Poaceae.

**Corn.**

No. 985. *Jawari*. Zarani, Kabul. Altitude 7,250 feet. Corn used as a vegetable and also for bread. Planted at end of June, ripe end of September.

222219. *CASTANEA* sp. Fagaceae.

**Chestnut.**

From Korea. Seeds presented by Kenneth D. Doak, Nam Myon, Hongchon, Gun Kangwon. Received Nov. 22, 1954.

From the vicinity of Nam, near Jung N.

222220. *RAUVOLFIA LAMARCKII* DC. Apocynaceae.

From Puerto Rico. Cuttings presented by Bernice Schubert, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 22, 1954.

No. 374. Tamarindo, near Experiment Station property, Guanica Forest, Nov. 17, 1954. Shrub about 3 feet high.

222221. *CROTALARIA* sp. Fabaceae.

From Mexico. Collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 22, 1954.

No. 14386. Los Cerritos, 40 miles south of Navajoa, Sonora. Oct. 1, 1954. Summer annual on granitic sand, growing in colony.

222222. *BRUNSVIGIA ROSEA* (Lam.) Hannibal. Amaryllidaceae.

From the Union of South Africa. Bulb presented by Prof. F. L. Warren, University of Natal, Pietermaritzburg, Natal. Received Nov. 22, 1954.

222223 and 222224. *PHASEOLUS VULGARIS* L. Fabaceae.

**Common bean.**

From France. Seeds presented by L. Laniessé, Paris. Received Nov. 22, 1954.

222223. *Flageolet Chevrier*.

222224. *Princesse Vert*; *Green Princess*.



**222225. ELEOCHARIS DULCIS (Burm. f.) Henschel. Cyperaceae. Waternut.**

From the Philippines. Corms presented by A. G. Newhall, Bay Laguna. Received Nov. 23, 1954.

Collected by Dr. Joe Velasco, near the bay, Laguna.

**222226. TANGHINIA VENENIFERA Poir. Apocynaceae.**

From Madagascar. Seeds presented by the Chief of Agricultural Service, Tananarive. Received Nov. 23, 1954.

**222227 to 222274.**

From Iran. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Branch, Beltsville, Md. Received Nov. 23, 1954.

Collected Oct. 30, 1954.

**222227. HIBISCUS ESCULENTUS L. Malvaceae. Okra.**

No. 1417. Market, Tehran.

**222228. ALLIUM CEPA L. Liliaceae. Onion.**

No. 1410. *Piaz*. Market, Tehran. Grown in Jamadan. Small green onion.

**222229. ALLIUM PORRUM L. Leek.**

No. 1445. *Tareh*. Market, Tehran.

**222230. ALLIUM sp.**

No. 1402. Shah's Reserve, Tehran. Altitude 5,000 feet. Tall onion-like plant growing to a height of 4½ feet.

**222231. ANETHUM GRAVEOLENS L. Apiaceae. Dill.**

No. 1444. *Sheveed*. Market, Tehran.

**222232. ASTRAGALUS sp. Fabaceae.**

No. 1401. Shah's Reserve, Tehran. Altitude 5,000 feet. Common annual legume in arid area.

**222233 to 222235. BETA VULGARIS L. Chenopodiaceae. Beet.**

222233. No. 1412. *Laboo*. Market, Tehran. Grown in Kashan.

222234. No. 1413. Market, Tehran. Altitude 5,000 feet. Large flattened disk-shaped beet.

222235. No. 1414. Market, Tehran.

**222236. BRASSICA RAPA L. Brassicaceae. Turnip.**

No. 1415. Market, Tehran.

**222237. BRASSICA OLERACEA var. CAPITATA L. Cabbage.**

No. 1416. Market, Tehran.

**222238. BROMUS sp. Poaceae.**

No. 1395. Shah's Reserve, Tehran. Altitude 5,000 feet. Small desert annual, growing to height of 1 inch.

**222239. CAREX sp. Cyperaceae. Sedge.**

No. 1399. Shah's Reserve, Tehran. Altitude 5,000 feet. Small sedge mixed with annual grasses in arid area. Well grazed.

**222240. CARTHAMUS TINCTORIUS L. Asteraceae. Safflower.**

No. 1446. Market, Tehran. Used as a substitute for saffron.



## 222227 to 222274—Continued

- 222241 and 222242. *CUCUMIS MELO* L. Cucurbitaceae. Muskmelon.  
 222241. No. 1421. Market, Tehran.  
 222242. No. 1422. Market, Tehran. Grown in Esfahan.
- 222243 and 222244. *CUCUMIS SATIVUS* L. Cucumber.  
 222243. No. 1423. Market, Tehran. Grown in Shemiran.  
 222244. No. 1424. Market, Tehran. Grown in Esfahan.
222245. *CUCURBITA MOSCHATA* Duchesne. Cucurbitaceae. Cushaw.  
 No. 1420. Market, Tehran.
- 222246 and 222247. *CUCURBITA PEPO* L. Pumpkin.  
 222246. No. 1418. *Kadoo*. Market, Tehran.  
 222247. No. 1419. Market, Tehran.
222248. *CYNODON DACTYLON* (L.) Pers. Poaceae. Bermuda grass.  
 No. 1386. Shah's Reserve, Tehran. Altitude 5,000 feet.
- 222249 and 222250. *DAUCUS CAROTA* L. Apiaceae. Carrot.  
 222249. No. 1436. Market, Tehran.  
 222250. No. 1437. Market, Tehran.
222251. *DIOSPYROS KAKI* L.f. Diospyraceae. Kaki persimmon.  
 No. 1448. *Khormaloo*. Market, Tehran.
222252. *HORDEUM* sp. Poaceae.  
 No. 1390. Shah's Reserve, Tehran. Altitude 5,000 feet.
- 222253 and 222254. *LACTUCA SATIVA* L. Cichoriaceae. Lettuce.  
 222253. No. 1426. Market, Tehran.  
 222254. No. 1427. Market, Tehran.
222255. *LACTUCA* sp.  
 No. 1403. Shah's Reserve, Tehran. Altitude 5,000 feet. Growing to height of 2 feet.
222256. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato.  
 No. 1435. Market, Tehran.
222257. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.  
 No. 1434. Market, Tehran. Reported to be red and yellow with good flavor.
222258. *SATUREJA HORTENSIS* L. Menthaceae.  
 No. 1447. *Marze*. Market, Tehran.
222259. *OCIMUM BASILICUM* L. Menthaceae. Basil.  
 No. 1440. Market, Tehran.
222260. *PAPAYER* sp. Papaveraceae.  
 No. 1405. Shah's Reserve, Tehran. Altitude 5,000 feet. Small plant growing to height of 8 inches.
222261. *PETROSELINUM CRISPUM* (Mill.) Nym. Apiaceae. Parsley.  
 No. 1439. Market, Tehran.
- 222262 to 222264. *RAPHANUS SATIVUS* L. Brassicaceae. Radish.  
 222262. No. 1428. Market, Tehran. Black radish, planted in fall and harvested within 21 days.

## 222227 to 222274—Continued

## 222262 to 222264—Continued

222263. No. 1429. Market, Tehran.

222264. No. 1430. Market, Tehran.

222265. RICINUS COMMUNIS L. Euphorbiaceae. Castorbean.  
No. 1407. Market, Tehran.222266. SESAMUM INDICUM L. Pedaliaceae. Sesame.  
No. 1406. *Konjet*. Market, Tehran.

222267 to 222269. SOLANUM MELONGENA L. Solanaceae. Eggplant.

222267. No. 1431. Market, Tehran. Said to be used as an ornamental.

222268. No. 1432. Market, Tehran. Common eggplant.

222269. No. 1433. Market, Tehran. Long eggplant.

222270. SPINACIA OLERACEA L. Chenopodiaceae. Spinach.

No. 1411. *Esfenaj*. Market, Tehran. Altitude 5,000 feet.

222271. STIPA sp. Poaceae.

No. 1388. Shah's Reserve, Tehran. Altitude 5,000 feet. Robust, but short.

222272. TRIFOLIUM RESUPINATUM L. Fabaceae. Persian clover.

No. 1425. Market, Tehran.

222273. TRIGONELLA ARCUATA Meyer. Fabaceae.

No. 1400. Shah's Reserve, Tehran. Altitude 5,000 feet. Small plant growing to height of 6 inches.

222274. TRIGONELLA POENUM-GRACEUM L. Fabaceae. Fenugreek.

No. 1441. *Shanbelile*. Market, Tehran.

222275. MALUS SYLVESTRIS Mill. Malaceae. Apple.

From India. Scions presented by the Director of Horticulture, Srinagar, Kashmir. Received Nov. 26, 1954.

*Sweet Ambri Kashmir.*

## 222276 to 222279.

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 29, 1954.

222276. ABUTILON THEOPHRASTI Medic. Malvaceae.

No. 969. *Sond; Kender*. Ninety miles south of Panjab, Kabul. Altitude 6,800 feet. Rope made from stem fibers.

222277. CALAMAGROSTIS sp. Poaceae.

No. 884. Bamian, Kabul. Altitude 8,500 feet. Used for summer and winter feed.

222278. GLYCERIA sp. Poaceae.

No. 841. East base of Shibar Pass, Kabul. Altitude 8,700 feet. Broad-leaved perennial pasture grass, growing in a wet mountain meadow.

222279. GLYCYRRHIZA sp. Fabaceae.

No. 855. Bamian, Kabul. Altitude 8,300 feet. Perennial legume, growing at edge of irrigated fields.

**222280 and 222281. ARACHIS HYPOGAEA L. Fabaceae.****Common peanut.**

From Libya. Seeds presented by Cavallini Fiorindo, Tripoli. Received Nov. 29, 1954.

**222280.** *G.14. American Local; Tens Red.* Ripe in 140 to 150 days.

**222281.** *G.14 Run. Egyptian Giant; Egyptian Little.* Ripe in 170 to 180 days.

**222282. ONCIDIUM ONUSTUM Lindl. Orchidaceae.**

From Peru. Plant growing at the United States Plant Introduction Gardens, Coconut Grove, Fla. Numbered Nov. 29, 1954.

Obtained in 1929 by Oscar L. Haught.

**222283 to 222319. ZEA MAYS L. Poaceae.****Corn.**

From Iowa. Seeds held at the Regional Plant Introduction Station, Ames. Numbered Nov. 30, 1954.

Open-pollinated varieties.

**222283 to 222309.** From the Agricultural Experiment Station, Fargo, N. D.

**222283.** *Alta Goldsweet.*

**222284.** *Carnival (pop).*

**222285.** *Cudu D-12.*

**222286.** *Dakota Squaw (flint).*

**222287.** *Early June (sweet).*

**222288.** *Falconer (semi-dent).*

**222289.** *Golden Bantam (sweet).*

**222290.** *Golden Gem (sweet).*

**222291.** *Japanese Hulless (pop).*

**222292.** *Minnesota 13 (90-day dent).*

**222293.** *Minnesota 13 (Boyd) (dent).*

**222294.** *Minnesota 13 (Haney) (dent).*

**222295.** *Northwestern (dent).*

**222296.** *Orchard Baby (sweet).*

**222297.** *Peruvian Red (D-64).*

**222298.** *Pioneer White (dent).*

**222299.** *Red Star (flint).*

**222300.** *Rosebud Blue (D-77).*

**222301.** *Rustler (white dent).*

**222302.** *Square Deal (dent).*

**222303.** *Stowel's Evergreen (sweet).*

**222304.** *Sunshine (sweet).*

**222305.** Bulk 1 (white flints).

**222306.** Bulk 2 (yellow flints).

**222307.** Bulk 3 (mixed color flints).

**222308.** Bulk 4 (white flour).

**222309.** Bulk 5 (colored flour).

## 222283 to 222319—Continued

222310 to 222319. From the Agricultural Experiment Station, Lincoln, Nebr.

222310. Cattle corn from eastern Nebraska with relatively long slender, smoothly dented ears.

222311. *Daves #2* from western Nebraska. An early variety, probably an adapted selection of *Minnesota 13*.

222312. Early composite from western Nebraska.

222313. Midseason composite from south-central and southwestern Nebraska.

222314. *Reid Yellow* (dent) from north-central Nebraska; *Barber* strain.

222315. *Hays Golden* from southwestern Nebraska.

222316. *Krug Yellow* (dent) from east-central Nebraska. *Shroup* strain.

222317. *Reid Yellow* (dent) from central Nebraska. *Nubold* strain.

222318. *Golden Republic* from south-central Nebraska. Probably flint-dent origin.

222319. *Red Meadowbrook Reid* from eastern Nebraska.

## 222320 to 222334.

From Australia. Seeds presented by Dr. William Hartley, Australian Department of Agriculture, Canberra. Received Nov. 30, 1954.

222320. *ANDROPOGON* sp. Poaceae.

Grown at Calliope.

222321. *ARUNDINELLA NEPALENSIS* Trin. Poaceae.

Grown at Banana.

222322. *BOTHRIODCHLOA DECIPIENS* (Hack.) C. E. Hubb. Poaceae.

Grown at Cardowan.

222323. *BOTHRIODCHLOA ERIANTHOIDES* (F. Muell.) C. E. Hubb.

Grown at Emerald.

222324. *BOTHRIODCHLOA EWARTIANA* (Domin.) C. E. Hubb.

Grown at Clermont.

222325. *BOTHRIODCHLOA INTERMEDIA* (R.Br.) A. Camus.

Grown at Rodd's Bay.

222326. *CAPILLIPEDIUM PARVIFLORUM* (R.Br.) Stapf. Poaceae.

Grown at Rodd's Bay.

222327. *CYMOPOGON BOMBYCINUS* (R. Br.) Domin. Poaceae.

Grown at Clermont-Capella.

222328. *CYMOPOGON* sp.

Grown at Fitzroyvale. Received as *Cymbopogon aponatus*, an apparently unpublished name.

222329. *HETEROPOGON CONTORTUS* (L.) Beauv. Poaceae.

Grown at Rodd's Bay.

222330. *HETEROPOGON TRITICEUS* (R. Br.) Stapf.

Grown at Cardowan.

222331. *SORGHUM* sp. Poaceae.

Grown at Ambrose.



## 222320 to 222334—Continued

222332 and 222333. *THEMEDA AUSTRALIS* (R. Br.) Stapf. Poaceae.  
Kangaroo grass.

222332. Grown at Ambrose.

222333. Grown at Mount Larcom.

222334. *THEMEDA GIGANTEA* var. *AVENACEA* (Cav.) Hack.

Grown at Theodore.

222335 to 222395. *POA* spp. Poaceae.

From Kansas. Seeds and clones collected by Kling L. Anderson, Agricultural Experiment Station, Kansas State College, Manhattan. Numbered Nov. 30, 1954.

A group of native or naturalized grasses from Kansas and Oklahoma for improvement and selection studies under supervision of the Kansas Agricultural Experiment Station. Collected in 1954. Seeds unless otherwise stated.

222335 to 222351. *POA ARACHNIFERA* Torr. Texas bluegrass.

222335. No. 2. Two miles north of Pond Creek, Okla.

222336. No. 3. Two miles north of Pond Creek. Sandy soil.

222337. No. 4. Two miles north of Pond Creek.

222338. No. 7. Three and one-half miles northwest of Pond Creek.  
Sandy soil.

222339. No. 8. Three and one-half miles northwest of Pond Creek.  
Sandy soil.

222340. No. 9. Four miles northwest of Pond Creek.

222341. No. 10. Four miles northwest of Pond Creek.

222342. No. 11. Seven miles northwest of Pond Creek. Sandy soil.

222343. No. 12. Seven miles northwest of Pond Creek. Clone; heads  
slender.

222344. No. 13. Seven miles northwest of Pond Creek. Clone.

222345. No. 14. Eight miles northwest of Pond Creek. Heads large.

222346. No. 15. Ten miles northwest of Pond Creek. Sandy loam.

222347. No. 24. Four miles east and one mile north of St. John, Staf-  
ford County, Kans.

222348. No. 49. Seven or eight miles north of Turon, Reno County,  
Kans.

222349. No. 51. Four or five miles east of Preston, Pratt County, Kans.

222350. No. 53. Five miles east of Preston.

222351. No. 59. West of Pratt County. Plots on Zink Brothers' farm.

222352 to 222374. *POA ARIDA* Vasey. Plains bluegrass.

222352. No. 5. Three miles northwest of Pond Creek, Okla. Sandy soil.

222353. No. 6. Three miles north of Pond Creek. Sandy soil.

222354. No. 6A. Three miles north of Pond Creek.

222355. No. 7A. Three and one-half miles northwest of Pond Creek.

222356. No. 17. Seventeen miles northwest of Pond Creek.

222357. No. 18. Twenty miles northwest of Pond Creek.

222358. No. 19. Twenty miles northwest of Pond Creek.

## 222335 to 222395—Continued

## 222352 to 222374—Continued

222359. No. 20. North edge of Great Salt Plains Lake, Okla. Alkali soil.
222360. No. 21. Three and one-half miles north of St. Johns, Stafford County, Kans. Alkali soil.
222361. No. 25. Three miles north of Ellinwood, Kans. Salt and alkali soils.
222362. No. 28. One mile west and 1 mile south of Hudson, Rattlesnake Creek Bottoms, Stafford County, Kans. Dense stand.
222363. No. 31. Four miles north and 3 miles east of Hudson, Stafford County, Kans. In wet meadow with switch, salt grass.
222364. No. 33. Nine miles north and  $\frac{1}{2}$  mile east of Sylvia, Reno County, Kans. In native meadow around fringe of wet spot.
222365. No. 34. Nine miles north and  $\frac{1}{2}$  mile east of Sylvia.
222366. No. 35. Ten miles north and  $1\frac{1}{2}$  miles east of Sylvia.
222367. No. 36. Twelve miles north of Sylvia.
222368. No. 37. Twelve miles north of Sylvia. Salt flat.
222369. No. 38. Thirteen miles north and 3 miles west of Sylvia.
222370. No. 41. Five miles north of Partridge, Kans.
222371. No. 42. Five miles west of Partridge.
222372. No. 43. Five and one-half miles west of Partridge.
222373. No. 44. Six miles west of Partridge.
222374. No. 45. Seven miles north and 1 mile east of Partridge.

## 222375 to 222395. POA PRATENSIS L. Kentucky bluegrass.

222375. No. 1. Two miles north of Pond Creek, Okla. Short type.
222376. No. 16. Fourteen miles northwest of Pond Creek. Sandy soil.
222377. No. 22. Three and one-half miles north of St. Johns, Stafford County, Kans. Wet meadow with alkali soil.
222378. No. 23. Four miles east and  $\frac{1}{2}$  mile north of St. Johns.
222379. No. 26. Three miles north of Ellinwood, Barton County, Kans.
222380. No. 27. Four miles north of Ellinwood, Barton County.
222381. No. 29. One mile west and 3 miles south of Hudson, Stafford County, Kans.
222382. No. 30. Three miles north and 2 miles east of Hudson, Stafford County.
222383. No. 32. One-half mile west and 1 mile south of Sylvia, Kans.
222384. No. 39. Thirteen miles north and 5 miles west of Sylvia.
222385. No. 40. Five miles west of Partridge, Reno County, Kans.
222386. No. 46. Four miles east of Claflin, Barton County, Kans.
222387. No. 47. One mile north of Chase, Kans.
222388. No. 48. Two or three miles north of Turon, Kans.
222389. No. 50. Preston, Kans.
222390. No. 52. Four or five miles east of Preston.
222391. No. 54. Three miles east of Lyons, Kans.

**222335 to 222395—Continued****222375 to 222395—Continued**

222392. No. 55. One and one-half miles east of Buston, Rice County, Kans. Tall.

222393. No. 56. Ten miles east of McPherson and 2 miles west of Galva, McPherson County, Kans.

222394. No. 57. Ten miles west of McPherson.

222395. No. 58. One-half mile west of Alden, Kans.

**222396. RAUVOLFIA LAMARCKII DC. Apocynaceae.**

From Puerto Rico. Seeds collected by B. S. Schubert and H. E. Winters at Tamarinda, near Experiment Station property, Guanica Forest. Received Dec. 1, 1954.

No. 374. Shrub about 3 feet high.

**222397. GLYCINE MAX (L.) Merr. Fabaceae.****Soybean.**

From Pakistan. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Numbered Dec. 1, 1954.

No. 14195. *Kulat*. Market, Mingora, Swat. Apr. 30, 1954. Seeds brown.

**222398 to 222454. ORYZA SATIVA L. Poaceae.****Rice.**

From Burma. Seeds presented by U Khin Maung, Agricultural Experiment Station, Hmawbi. Received Dec. 2, 1954.

222398. G.S. No. 6. *CA08—Cinbaw*.

222399. G.S. No. 7. *B36-3*.

222400. G.S. No. 8. *C30-22—Billat Ngosein*.

222401. G.S. No. 9. *C32-1—Bilugyun Ngasein*.

222402. G.S. No. 10. *B28-12—Bingala*.

222403. G.S. No. 11. *C409—Bonmadewa*.

222404. G.S. No. 12. *C15-10—Byatgale*.

222405. G.S. No. 14. *B35-1—Dawebyan*.

222406. G.S. No. 15. *B35-2—Dawebyan*.

222407. G.S. No. 16. *A35-17—Ekarin*.

222408. G.S. No. 17. *A29-16—Ekarin Yakine*.

222409. G.S. No. 19. *A26-3—Emata Amagye*.

222410. G.S. No. 20. *A28-8—Emata Amagye*.

222411. G.S. No. 21. *A28-6—Emata Amagye Pindogale*.

222412. G.S. No. 22. *A31-12—Emata Yin*.

222413. G.S. No. 23. *Gocong*.

222414. G.S. No. 24. *A36-3—Hnanwa Phingauk*.

222415. G.S. No. 26. *D17-88—Kamakgi*.

222416. G.S. No. 27. *D34-181—Khayangya*.

222417. G.S. No. 28. *A27-4—Kyaukfryu*.

222418. G.S. No. 29. *B30-12—Kyettuywe*.

222419. G.S. No. 30. *E3A-23—Kywegyutgyi*.

222420. G.S. No. 31. *C23-6—Laroong*.



## 222398 to 222454—Continued

222421. G.S. No. 32. *E30-42-Lawthawgyi.*  
 222422. G.S. No. 33. *B24-92-Mannngnyo.*  
 222423. G.S. No. 34. *C29-127-Mawteik.*  
 222424. G.S. No. 35. *C33-8-Natural Hybrid.*  
 222425. G.S. No. 36. *T. 1/6-Naungtu.*  
 222426. G.S. No. 38. *C31-13-Ngakyauk.*  
 222427. G.S. No. 40. *D25-4-Ngakywe.*  
 222428. G.S. No. 41. *C405-Ngsayk-C12.*  
 222429. G.S. No. 42. *C401-Ngasein C21-04.*  
 222430. G.S. No. 44. *C403-Ngasein C30-28.*  
 222431. G.S. No. 45. *C14-8-Ngasein Phinme.*  
 222432. G.S. No. 46. *C24-102-Ngasein Thidat.*  
 222433. G.S. No. 47. *C414-Ngathalun CWR 10/9.*  
 222434. G.S. No. 48. *B404-Ngayunwa T8.*  
 222435. G.S. No. 49. *T33-119-Ngayunwabo B403.*  
 222436. G.S. No. 50. *A401-Mweswe-A29-212.*  
 222437. G.S. No. 51. *C13007-Okshitmayin A411.*  
 222438. G.S. No. 52. *Patnai-23-Gosaba.*  
 222439. G.S. No. 53. *C410-Paungmalaung C3.*  
 222440. G.S. No. 54. *A16-34-Pindaung Emata.*  
 222441. G.S. No. 55. *A29-20-Pindosein.*  
 222442. G.S. No. 57. *C28-16-Seingyi.*  
 222443. G.S. No. 58. *C34-14-Shangale.*  
 222444. G.S. No. 59. *C24-71-Shannyein.*  
 222445. G.S. No. 60. *B405-Shweat.*  
 222446. G.S. No. 61. *C33-18-Shwechigyin.*  
 222447. G.S. No. 62. *C33-24-Shwechigyin.*  
 222448. G.S. No. 64. *B401-T30-123-Taungdeikfran.*  
 222449. G.S. No. 66. *Xa-97.*  
 222450. G.S. No. 67. *Xa-108.*  
 222451. G.S. No. 68. *A29-23 Yahine.*  
 222452. G.S. No. 70. *A35-6-Yodanya.*  
 222453. G.S. No. 71. *A35-13-Yodanya.*  
 222454. G.S. No. 72. *C34-108-Zale.*

## 222455 to 222466. SACCHARUM. Poaceae.

## Sugarcane.

From Taiwan. Cuttings presented by the Taiwan Sugar Experiment Station,  
 Pingtung Station, Pingtung. Received Dec. 2, 1954.

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|----------------------|----------------------|
| 222455. P.T. 46-256. | 222461. P.T. 48-764. |
| 222456. P.T. 47-10.  | 222462. P.T. 49-140. |
| 222457. P.T. 48-21.  | 222463. P.T. 49-143. |
| 222458. P.T. 48-52.  | 222464. P.T. 50-54.  |
| 222459. P.T. 48-196. | 222465. P.T. 50-94.  |
| 222460. P.T. 48-655. | 222466. P.T. 50-511. |



**222467. LUPINUS MUTABILIS Sweet. Fabaceae.**

From Ecuador. Seeds presented by Eugene Bertone, Food and Agriculture Organization Mission, Quito. Received Dec. 3, 1954.

From the central part of Pichincha Province, near Machachi. Altitude 9,000 feet.

**222468 to 222498. ZEA MAYS L. Poaceae.****Corn.**

From Michigan. Seeds held at Michigan State University, East Lansing. Numbered Dec. 7, 1954.

Open-pollinated varieties.

Source of material indicated.

P.I. No.	Variety	Source and descriptive notes
222468.	<i>Nothstine</i>	S. J. Nothstine, Mancelona, Mich., in 1949. Very early variety in northern Michigan.
222469.	<i>Golden Glow-Smithers</i>	Jacob Smithers, of Marian, Mich., in 1949. Very early strain.
222470.	<i>Pickett-Dickerson</i>	M. G. Dickerson, of Bloomingdale, Mich., in 1949.
222471.	<i>MAC</i>	Carl Abel of Cedar Springs, Mich., in 1949. Earlier than <i>Duncan</i> .
222472.	<i>Duncan</i>	Ernest York of Three Rivers, Mich., in 1949.
222473.	<i>Pickett-Thurman</i>	John Thurman of Mt. Clemens, Mich., in 1949.
222474.	<i>Polar Dent</i>	Arthur Jewett of Mason, Mich., in 1949. A strain of <i>Duncan</i> selected for its resistance to spring frosts.
222475.	<i>Yonderian</i>	Loren Yonderian of Gobles, Mich., in 1949. Midseason in maturity.
222476.	<i>Bussey</i>	Alvin Bussey of Lake Leelanau, Mich., in 1949. Early maturity.
222477.	<i>Ranger</i>	Henry Ranger of Northport, Mich., in 1949. Early maturity.
222478.	<i>Mathison</i>	Frank E. Mathison of Traverse City, Mich., in 1949. Early maturity.
222479.	<i>Pratt</i>	Ted Pratt of Lapeer, Mich., in 1949. Midseason in maturity.
222480.	<i>Folks White Cap</i>	William Folks of Hanover, Mich., in 1949. Medium early maturity.
222481.	<i>Pride of North</i>	Roscoe J. Carl and Son Seed Co. of Lansing, Mich., in 1952.
222482.	<i>Early Murdock</i>	Roscoe J. Carl and Son Seed Co. of Lansing, Mich., in 1952.
222483.	<i>Pickett-Deidrich</i>	Albert Deidrich of Richmond, Mich., in 1949. Earlier than <i>Dickerson</i> or <i>Thurman</i> strain of <i>Pickett</i> .
222484.	<i>Ferden Yellow Dent</i>	Lee Ferden of Chesaning, Mich., in 1949.
222485.	<i>Early Golden Glow</i>	Edward and Walter Gauthier of Cedar, Mich., in 1949. Very early strain of <i>Golden Glow</i> .

P.I. No.	Variety	Source and descriptive notes
222486.	<i>Late Golden Glow</i>	Edward and Walter Gauthier of Cedar, Mich., in 1949.
222487.	<i>Bethke</i>	Carl Bethke of Grand Haven, Mich., in 1950. Medium early maturity.
222488.	<i>Schmiege</i>	Albert Schmiede of Saginaw, Mich., in 1951. Early, flint variety.
222489.	<i>Huron</i>	Unknown farmer near Okemos, Mich., in 1953. Early maturing strain.
222490.	<i>Smut Nose</i>	Roscoe Carl and Son Seed Co., Lansing, Mich., in 1952.
222491.	<i>Improved Red Cob Fodder Corn</i>	Roscoe Carl and Son Seed Co., of Lansing, Mich., 1952.
222492.	<i>White Cap Yellow Dent</i>	Roscoe Carl and Son Seed Co., of Lansing, Mich.
222493.	<i>Golden Glow</i>	Roscoe Carl and Son Seed Co., of Lansing, Mich.
222494.	<i>Pickett</i>	Roscoe Carl and Son Seed Co., of Lansing, Mich.
222495.	<i>Golden Glow</i>	D. A. McPherson of Lowell, Mich.
222496.	(Unnamed)	Mr. Abel in Hillsdale County, Mich., in 1952. Late-maturing.
222497.	(Unnamed)	Allan Courser of Isabella County, Mich., in 1951. Early maturity.
222498.	(Unnamed)	Source of seed unknown. Early maturing.

222499. *Norin Mochi 6.*  
222500. *Norin 11.*  
222501. *Norin 31; Hakamuri.*

222502 to 222505.	AVENA SATIVA L.	Poaceae.	Oats.
222502.	<i>F-11.</i>	222504.	<i>F-22.</i>
222503.	<i>F-14.</i>	222505.	<i>F-25-257/15.</i>

222509. HORDEUM sp.  
F-55.

**222510 to 222514.**

From Austria. Seeds presented by Gustav Wunderlich, Probsdorfer Seed Breeding Station, Vienna. Received Dec. 7, 1954.

**222510.** HORDEUM sp. Poaceae.

*Bestehorns.*

**222511.** HORDEUM sp.

*Oderbruch.*

**222512.** HORDEUM sp.

*Tschermaks Glatt Grannige.*

**222513.** HORDEUM sp.

*Tschermaks.*

**222514.** HORDEUM sp.

*Wieselburger.*

**222515. ARALIA CORDATA Thunb. Araliaceae.****Udo.**

From Japan. Roots presented by K. Matsuoka, Shikoka Agricultural Experiment Station, Zentsuji. Received Dec. 8, 1954.

*Japanese Udo.*

**222516 to 222519. COFFEA RACEMOSA Lour. Rubinaceae. Coffee.**

From Portugal. Seeds presented by the Estação Agronómica Nacional, Sacavém. Received Dec. 9, 1954.

**222516.** No. 289.

**222518.** No. 291.

**222517.** No. 290.

**222519.** No. 292.

**222520 to 222530.**

From Iran. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Branch, Beltsville, Md. Received Dec. 9, 1954.

Collected Oct. 30, 1954.

**222520.** AGROPYRON REPENS (L.) Beauv. Poaceae.

No. 1389. Shah's Reserve, Tehran. Altitude 5,000 feet. Grows to a height of 3 feet.

**222521.** EREMOPOA PERSICA (Trin.) Roshev. Poaceae.

No. 1393. Shah's Reserve, Tehran. Altitude 5,000 feet. Small, annual grass.

**222522.** ANDROPOGON sp. Poaceae.

No. 1398. Shah's Reserve, Tehran. Altitude 5,000 feet. Tall perennial grass, growing to height of 3 feet.

**222523.** BOISSIERA BROMOIDES Hochst & Steud. Poaceae.

No. 1394. Shah's Reserve, Tehran. Altitude 5,000 feet. Common desert annual.

**222524.** BROMUS DANTHONIAE Trin. Poaceae.

No. 1396. Shah's Reserve, Tehran. Altitude 5,000 feet. Small annual, common on rocky area.

**222525.** NARDURUS ORIENTALIS Boiss. Poaceae.

No. 1392. Shah's Reserve, Tehran. Altitude 5,000 feet. Desert annual growing to height of 6 inches.

**222520 to 222530—Continued**

**222526. *LOLIUM MULTIFLORUM* Lam. Poaceae. Italian ryegrass.**

No. 1408. Market, Tehran. Grown in Karaj. Altitude 5,000 feet. Used for lawns.

**222527. *LOLIUM PERENNE* L. Perennial ryegrass.**

No. 1409. Market, Tehran. Grown in Natanz. Used for lawns.

**222528. *POA BULBOSA* L. Poaceae.**

No. 1385. Shah's Reserve, Tehran. Altitude 5,000 feet. Good spring forage.

**222529. *SETARIA* sp. Poaceae.**

No. 1397. Shah's Reserve, Tehran. Altitude 5,000 feet. Bunchgrass growing to height of 2 feet.

**222530. *STIPA* sp. Poaceae.**

No. 1387. Shah's Reserve, Tehran. Altitude 5,000 feet. Perennial bunchgrass.

**222531 and 222532.**

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Dec. 9, 1954.

**222531. (Undetermined.) Scrophulariaceae.**

No. 811. North of pass about 61 miles south of Kabul, near Gardez. July 30, 1954. Altitude 9,000 feet. Partially browsed leafless shrub growing to height of 2 feet.

**222532. (Undetermined.) Brassicaceae.**

No. 862. Road to Band-i-Amir, Bamian, Kabul. Aug. 11, 1954. Altitude 10,500 feet. Perennial shrub, growing to height of 2 feet; apparently grazed.

**222533. *PAPAVER* sp. Papaveraceae.**

From Greece. Seeds presented by the Director, Research Station, Halandri. Received Dec. 9, 1954.

**222534. *PISUM SATIVUM* L. Fabaceae. Pea.**

From Wisconsin. Seeds presented by D. J. Hagedorn, University of Wisconsin, Madison. Received Dec. 10, 1954.

*Delwiche Early Scotch.*

**222535. *ASTIANTHUS VIMINALIS* (H.B.K.) Baill. Bignoniaceae.**

From Mexico. Seeds collected by H. S. Gentry and W. B. Fox, Agricultural Explorers, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Dec. 10, 1954.

Collected near Iguala, Guerrero.

**222536. *SORGHUM SUDANENSE* (Piper) Stapf. Poaceae. Sudan grass.**

From Nigeria. Seeds presented by Charles R. Enlow, Northern Research Station, Samaru, Zaria. Received Dec. 13, 1954.

From Leamy Road, 50 miles northeast of Maiduguri, Borne Province.



**222537 to 222539. SOLANUM TUBEROSUM L. Solanaceae. Potato.**

From Iran. Seeds collected by E. E. Smith and L. O. Gratz, Agricultural Explorers, Horticultural Crops Research Branch, Beltsville, Md. Received Dec. 13, 1954.

222537. No. 1836.

No. 1. Market, Tehran. Nov. 23,

222538. No. 1836.

No. 2. Market, Tehran. Nov. 23.

222539. No. 1836.

No. 3. Market, Tehran. Nov. 23.

**222540. SACCHARUM. Poaceae.****Sugarcane.**

From Cuba. Cuttings presented by George Arceneau, Preston. Received Dec. 14, 1954.

*C.P. 45-150.*

**222541. RAUVOLFIA VERTICILLATA Baill. Apocynaceae.**

From Florida. Seeds presented by G. D. Ruehle, Sub-Tropical Experiment Station, Homestead. Received Dec. 14, 1954.

No. 6124.

**222542 and 222543.**

From Israel. Seeds presented by Dr. Samish, Agricultural Research Station, Rehovot. Received Dec. 14, 1954.

222542. PRUNUS CERASIA Bl. Amygdalaceae.

222543. PRUNUS DOMESTICA L. **Common plum.**

*Suedah.*

**222544. COLCHICUM AUTUMNALE L. Liliaceae.**

From Iran. Bulbs collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md.

No. 1756. Twenty-five miles north of Sanandaj, road to Saghez.

**222545. SECALE CEREALE L. Poaceae.****Rye.**

From New York. Seeds presented by the New York Agricultural Experiment Station, Geneva. Received Dec. 15, 1954.

*Tetra Petkus.*

**222546 to 222550. GLYCINE MAX (L.) Merr. Fabaceae. Soybean.**

From Argentina. Seeds presented by Dirección de Cultivos Especiales, Buenos Aires. Received Dec. 15, 1954.

222546. 947-DCE-Sj-020-1.

222549. 951-DCE-Sj-094.

222547. 951-DCE-Sj-074.

222550. 951-DCE-Sj-096.

222548. 951-DCE-Sj-076.

**222551 to 222588.**

From Puerto Rico. Seeds presented by the Federal Experiment Station, Mayaguez. Received Dec. 16, 1954.

222551 to 222556. COFFEA ARABICA L. Rubiaceae.

**Arabian coffee.**

222551. *Blue Mountain.*

222554. *Carmelita Robusta.*

222552. *Bourbon.*

222555. *Ceylon Hybrid (1).*

222553. *Carmelita de Ponce.*

222556. *Ceylon Hybrid (2).*

## 222551 to 222588—Continued

222557. *COFFEA ARABICA* var. *COLUMNARIS* Cramer.222558. *COFFEA ARABICA* var. *ERECTA* Cramer.222559 to 222562. *COFFEA ARABICA* L.222559. *Guadalupe*. 222561. *Kona*.222560. *Java Mocha*. 222562. *Le Roy*.222363. *COFFEA ARABICA* var. *MARAGOGIPE* Froehner.222264 to 222575. *COFFEA ARABICA* L.222564. *Marasan*. 222570. *Preanger*.222565. *Mocha*. 222571. *Pretoria*.222566. *Murta*. 222572. *Puerto Rico*.222567. *Padang*. 222573. *San Ramon*.222568. *Pantgoer*. 222574. *Sumatra*.222569. *Philippinean*. 222575. *Surinam*.222576. *COFFEA ABEOKUTAE* Cramer.222577. *COFFEA ARNOLDIANA* Wildem.222578. *COFFEA DEWEVREI* Wildem.222579. *COFFEA DYBOWSKII* Van Hall.222580. *COFFEA EXCELSA* Chev.222581. *COFFEA LIBERICA* Bull.

No. 1.

222582. *COFFEA CONGENSIS* Froehn.222583. *COFFEA CANEPHORA* Pierre.222584. *COFFEA CONGENSIS* var. *CHALOTTII* Pierre.222585. *COFFEA QUILLOU* Cramer.222586. *COFFEA ROBUSTA* Linden.222587. *COFFEA UGANDAE* Cramer.222588. *COFFEA STENOPHYLLA* G. Don.222589. *CUCUMIS MELO* var. *RETICULATUS* Naud. Cucurbitaceae.  
Muskmelon.From Iran. Seeds presented by an unknown donor. Received Dec. 16, 1954.  
From Kazvin, northwest of Tehran.222590 and 222591. *CAMELLIA RUSTICANA* Honda. Theaceae.From Japan. Seeds presented by the Japanese Camellia Society, Setagaya-ku.  
Received Dec. 17, 1954.

222590. Garden form.

222591. Original form.

222592 to 222602.

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer,  
Plant Introduction Section, Horticultural Crops Research Branch. Re-  
ceived Dec. 17, 1954.222592. *JUGLANS REGIA* L. Juglandaceae.

Persian walnut.

No. 1055. *Chaharmaghz*. Yaftal, Faizabad, Badakhshan. Sept. 26, 1954.  
Altitude 6,500 feet.

**222592 to 222602—Continued**

**222593 to 222599. PRUNUS AMYGDALUS** Batsch. Amygdalaceae. **Almond.**

222593. No. 1051. *Badam*. Market, Faizabad, Badakhshan. Sept. 25, 1954.

222594. No. 1052. *Badam*. Market, Faizabad, Badakhshan. Sept. 25, 1954. Altitude 4,000 feet.

222595. No. 1045. *Badam-i-Sangi*. Market, Kabul. Aug. 1, 1954.

222596. No. 1048. *Badam-i-Sangi*. Market, Jurm, Badakhshan. Sept. 20, 1954. Altitude 4,800 feet.

222597. No. 1049. *Badam*. Market, Jurm, Badakhshan. Sept. 20, 1954. Altitude 4,800 feet.

222598. No. 1050. *Badam*. Market, Faizabad, Badakhshan. Sept. 25, 1954. Altitude 4,000 feet.

222599. No. 1053. *Badam*. Market, Faizabad, Badakhshan. Sept. 25, 1954. Altitude 4,000 feet.

**222600 to 222602. PRUNUS ARMENIACA** L. **Apricot.**

222600. No. 1046. *Zardaloo*. Market, Kabul. From Chahardi-Ghorband, Kabul. Aug. 4, 1954. Altitude 6,000 feet.

222601. No. 1047. *Zardaloo*. Market, Bamian, Kabul. Aug. 10, 1954. Altitude 8,300 feet.

222602. No. 1054. *Zardaloo*. Market, Faizabad, Badakhshan. Sept. 25, 1954. Altitude 4,000 feet.

**222603 to 222605. LYCOPERSICON ESCULENTUM** Mill. Solanaceae. **Tomato.**

From Argentina. Seeds presented by Abelardo Piovano, National University of Argentina, Mendoza. Received Dec. 17, 1954.

222603. *Perón*.

222604. *Santa Catalina*.

222605. *Cuyano*.

**222606 to 222608. SACCHARUM. Poaceae. Sugarcane.**

From Colombia. Cuttings presented by the Estación Agrícola Experimental, Palmira, Valle. Received Dec. 20, 1954.

222606. *E.P.C. 4.922*.

222607. *E.P.C. 17.395*.

222608. *E.P.C. 39.381*.

**222609 to 222649. ZEA MAYS** L. Poaceae. **Corn.**

From Iowa. Seed stocks held at the Regional Plant Introduction Station, Ames. Numbered Dec. 20, 1954.

Open-pollinated varieties from Kansas; notes by L. A. Tatum, Kansas State College, Manhattan.

<i>P.I. No.</i>	<i>Variety</i>	<i>Source and descriptive notes</i>
222609.	<i>Original Midland #1</i>	From Oscar Rhodes, Columbus.
222610.	<i>Reid Type Composite #3</i>	A composite of 12 midseason yellow varieties.
222611.	<i>Early White Composite #2</i>	A composite of 12 early white varieties.
222612.	<i>Late White Composite #6</i>	A composite of 9 late white varieties.



## 222609 to 222649—Continued

<i>P.I. No.</i>	<i>Variety</i>	<i>Source and descriptive notes</i>
222613.	<i>Reid Yellow Dent</i> .....	The Kansas certified strain of this variety.
222614.	No. 2. <i>Midland</i> .....	From C. C. Cunningham, Eldorado.
222615.	No. 3. <i>Midland</i> .....	From Carl Hellwig, Oswego.
222616.	No. 6. <i>Zahnley Yellow Dent</i> .....	From Harry E. Zahnley, Alta Vista. Relatively late, yellow-enderm variety.
222617.	No. 7. <i>Richards White</i> .....	From Richard Heining, Goddard. Medium early variety with white kernels, white cob, short stubby ears.
222618.	No. 8. <i>Hays Golden</i> .....	Obtained by Hays Branch Station in 1923 from Ness County. Medium early variety, very drought resistant.
222619.	No. 9. <i>Freed White</i> .....	Medium early, white, very drought resistant.
222620.	No. 11. <i>Cassell White</i> .....	From Tribune Branch Experiment Station. An early white variety.
222621.	No. 12. <i>Golden Republic</i> .....	From J. W. Kuhn, Beltsville, Md. A fairly early yellow variety.
222622.	No. 29. <i>Mortgage Lifter</i> <i>Yellow</i> .....	From Arthur Ingmire, Coffeyville. A full-season yellow variety.
222623.	No. 30. <i>Montgomery County</i> <i>White</i> .....	A high-yielding, full-season, white variety from Herman Schwatken, Elk City.
222624.	No. 32. <i>Montgomery County</i> <i>Blue and White</i> .....	High-yielding, late-maturing, white variety with some blue aleurone from Paul Adamson, Cherryvale. Drought resistant.
222625.	No. 36. <i>Woodson County</i> <i>Yellow</i> .....	From Jim Heffren, Piqua. Midseason maturity.
222626.	No. 38. <i>Crawford County</i> <i>White</i> .....	A late, high-eared, white variety from George Newberry, Girard.
222627.	No. 39. <i>St. Charles White</i> .....	Midseason white variety from Allie Newman, Holton.
222628.	No. 42. <i>Brown County Yellow</i> .....	From Ed. McCoy, Morrill. A fairly early variety with good yield in test crosses.
222629.	No. 43. <i>Challender Blue and</i> <i>White</i> .....	A white variety with some blue aleurone from Millard Challender, Sedwich.
222630.	No. 51. <i>Bill Day Yellow</i> .....	From Blecha Bros., Dewey. A high-yielding midseason variety.



## 222609 to 222649—Continued

<i>P.I. No.</i>	<i>Variety</i>	<i>Source and descriptive notes</i>
222631.	No. 53. <i>Labette County Yellow</i> .....	From F. W. Schermberg, Labette Co. High yielding and lodging resistant.
222632.	No. 54. <i>Labette County Yellow</i> .....	From Leo Lotz, Edna. Drought-resistant, high-yielding, full-season variety.
222633.	No. 57. <i>Labette County Yellow</i> .....	From Clair Leib, Edna. Drought resistant; full-season.
222634.	No. 75. <i>Shawnee White Muskrush</i> .....	From John D. Anderson, Silver Lake. Late, large variety.
222635.	No. 80. <i>Bowmans Cole Creek</i> .....	From Bowman Bros., Lebo. White kernel, white cob, midseason maturity, drought resistant.
222636.	No. 82. <i>Allen County Yellow</i> .....	High-yielding, midseason, yellow variety from Iola.
222637.	No. 84. <i>Crawford County Chief</i> .....	From Carl Shaffer, Girard. A large, late variety, high eared.
222638.	No. 85. <i>Neosho County White</i> .....	From Charles Mitchel, Thayer. Full-season variety.
222639.	No. 90. <i>Pride of Saline</i> .....	Dept. of Agronomy, Kansas State College. The outstanding variety in Kansas. Very drought resistant.
222640.	No. 92. <i>Butler County White</i> .....	From Potwin. A good-yielding white variety; drought resistant.
222641.	No. 93. <i>Butler County Yellow</i> .....	From Ernest G. Classen, White-water. A midseason variety.
222642.	No. 95. <i>Kansas Sunflower</i> .....	From I. G. Waldon, New Cambria. A fairly late yellow variety.
222643.	<i>Commercial White</i> .....	A white-cob selection from St. Charles White. Large, late variety. Very high yielding under good conditions.
222644.	<i>Early Yellow Composite #1</i> .....	A composite of 12 early yellow varieties, mostly of <i>Hays Golden</i> type. Hardy, drought resistant.
222645.	<i>Late Yellow Composite #4</i> .....	A composite of 9 late yellow varieties; several of <i>Midland</i> type.
222646.	<i>Blue and White Composite #5</i> .....	A composite of 7 varieties with mostly white grain but some blue aleurone; hardy, high yielding.
222647.	<i>South American. (popcorn.)</i> .....	
222648.	<i>Supergold. (popcorn.)</i> .....	
222649.	OP67. <i>Improved South American (popcorn)</i> .....	F. A. Manglesdorf, Atchison.

## 222650 to 222689. TRITICUM AESTIVUM L. Poaceae.

## Common wheat.

From Iran. Seeds collected by E. E. Smith, Agricultural Explorer, Horticultural Crops Research Branch, Beltsville, Md. Received Dec. 20, 1954.

222650. No. 1620. Livestock Station, Moghan Steppes, Azerbaijan. Nov. 10.

222651 to 222685. Tabriz branch of Department of Agriculture, Azerbaijan. Nov. 12-16. *Gandom* is the local name for wheat.

222651. No. 1642. *Gandomih-Shah-Pass*.

222652. No. 1643. Sample No. 30. Fall dryland wheat.

222653. No. 1644. *Gandom-i-Mahalli*. Sample No. 32. Dryland and irrigated; fall and spring wheat.

222654. No. 1645. Sample No. 73. Fall wheat, gives good yield in irrigated land and poor yield in dryland.

222655. No. 1646. Sample No. 108. Dryland wheat.

222656. No. 1647. Sample No. 177. Fall, dryland wheat.

222657. No. 1648. Sample No. 211. Fall wheat; matures early.

222658. No. 1649. Sample No. 70. Fall wheat, relatively early.

222659. No. 1650. Sample No. 70. Fall wheat.

222660. No. 1651. Sample No. 216. Fall wheat.

222661. No. 1652. Sample No. 266. Dryland wheat.

222662. No. 1653. Sample No. 297. Fall wheat.

222663. No. 1654. Sample No. 303. Fall wheat.

222664. No. 1655. Sample No. 322. Fall wheat.

222665. No. 1656. Sample No. 327.

222666. No. 1657. Sample No. 339. Fall wheat.

222667. No. 1658. Sample No. 344. Fall wheat, early.

222668. No. 1659. *Gandom-Gazeedanak*. Sample No. 366. Fall wheat.

222669. No. 1660. Sample No. 377.

222670. No. 1661. Sample No. 407. Fall wheat.

222671. No. 1662. Sample No. 409. Fall wheat, very good yield.

222672. No. 1663. Sample No. 419. Fall wheat, late.

222673. No. 1664. Sample No. 449. Fall wheat.

222674. No. 1665. Originally from Googan village.

222675. No. 1666. Originally from Miandoab.

222676. No. 1667. *Gandomeh Maia*. Originally from Dashband.

222677. No. 1668.

222678. No. 1669.

222679. No. 1670. *Shah Passand*.

222680. No. 1671. *Shah Passand*.

222681. No. 1672. *Sarry Boghda*.

222682. No. 1673. *Gandom (Shah Passand)*.

222683. No. 1674.

222684. No. 1675. *Gandomeh Kousseh*. Originally from Gaskar village. Awnless wheat.

222685. No. 1676.

**222650 to 222689—Continued**

222686. No. 1744. Market, Mahabad, Azerbaijan. Nov. 16, 1954. Altitude 4,500 feet. Red, dryland wheat.
222687. No. 1745. Market, Mahabad, Azerbaijan. Nov. 16, 1954. Altitude 4,500 feet. Irrigated wheat.
222688. No. 1746. Market, Mahabad, Azerbaijan. Nov. 16, 1954. Altitude 4,500 feet. Yellow dryland wheat.
222689. No. 1748. Bukan, Azerbaijan. Nov. 16, 1954. Altitude 4,500 feet. Dryland wheat, makes excellent bread.

**222690 to 222693.**

From Iran. Seeds collected by E. E. Smith, Agricultural Explorer, Horticultural Crops Research Branch, Beltsville, Md. Received Dec. 21, 1954.

- 222690 to 222692. *GOSSYPIMUM HERBACEUM* L. Malvaceae. Cotton.
222690. No. 1633. Twenty miles north of Mechginshahr, Azerbaijan.
222691. No. 1686. Four miles east of Khot, Azerbaijan.
222692. No. 1703. Market, Khoy, Azerbaijan.
222693. *GOSSYPIMUM*.

No. 1786. Forty miles east of Kermanshah, road to Hamadan.

**222694 to 222696.**

From Puerto Rico. Seeds collected by Bernice G. Schubert, Agricultural Explorer, Horticultural Crops Research Branch, Beltsville, Md. Received Dec. 21, 1954.

222694. *RAJANIA CORDATA* L. Dioscoreaceae.
- No. 471a. Secondary road off Maricao Rd. Kmo.
222695. *TREMA LAMARCKIANA*. (Roem. & Schult.) Blume. Ulmaceae.
- Road to Maricao from Sabana Grande.
222696. *TREMA MICRANTHA* (L.) Blume.
- Road to Maricao Forest.

**222697 to 222756.**

From Iran. Seeds collected by E. E. Smith, Agricultural Explorer, Horticultural Crops Research Branch, Beltsville, Md. Received Dec. 22, 1954.

Collected in Nov. 1954.

222697. *HIBISCUS ESCULENTUS* L. Malvaceae. Okra.
- No. 1729. *Bamiyeh*. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet.
- 222698 and 222701. *ALLIUM PORRUM* L. Liliaceae. Leek.
222698. No. 1712. *Piaz*. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet. Large red onion.
222699. No. 1771. *Piaz*. Market, Kermanshah. Altitude 4,500 feet.
222700. No. 1772. *Kavar*. Market, Kermanshah. Altitude 4,500 feet.
222701. No. 1803. *Tareh*. Market, Hamadan. Altitude 6,400 feet.
222702. *APIUM GRAVEOLENS* L. Apiaceae. Celery.
- No. 1714. *Karafs*. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet.
222703. *BETA VULGARIS* L. Chenopodiaceae. Beet.
- No. 1810. *Chogondon-Laboo*. Market, Hamadan.



## 222697 to 222756—Continued

222704. *BRASSICA* sp. Brassicaceae.No. 1798. *Kalam Ghormi*. Market, Hamadan. Altitude 6,400 feet.222705. *CANNABIS SATIVA* L. Moraceae.

Hemp.

No. 1770. *Shahdaneh*. Market, Kermanshah. Altitude 4,500 feet.222706 to 222709. *CICER ARIETINUM* L. Fabaceae.

Chickpea.

222706. No. 1698. *Nakhood*. Market, Khoy, Azerbaijan.222707. No. 1699. *Nakhood*. Market, Khoy, Azerbaijan.222708. No. 1721. *Nakhood-i-Siah*. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet.222709. No. 1806. *Nakhood-Siah*. Market, Hamadan. Altitude 6,400 feet. Black chickpea.222710 to 222715. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. Watermelon.*Hendevaneh* is the local name for watermelon.

222710. No. 1719. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet. Late red-fleshed, elliptic watermelon with thin rind.

222711. No. 1720. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet. Red-fleshed watermelon with thin rind.

222712. No. 1731. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet. Red-fleshed watermelon with thin rind.

222713. No. 1767. Market, Kermanshah. Altitude 4,500 feet. Red-fleshed elliptic watermelon.

222714. No. 1768. Market, Kermanshah. Altitude 4,500 feet. Round watermelon.

222715. No. 1821. Saarifabad, 9 miles east of Kazwin, road to Tehran. Altitude 4,500 feet. Round watermelon with green rind; reported to be the best in Iran.

222716 to 222719. *CUCUMIS MELO* L. Cucurbitaceae.

Muskmelon.

222716. No. 1726. *Kharbozeh*. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet. Fruit long-elliptic; flesh and rind yellow.222717. No. 1773. *Dastanbou*. Market, Kermanshah. Altitude 4,500 feet. Fruit round; white fleshed.222718. No. 1774. *Dastanbou*. Market, Kermanshah. Altitude 4,500 feet. Fruit round, white fleshed.222719. No. 1799. *Kharbozeh*. Market, Hamadan. Altitude 6,400 feet. Large white melon.222720. *CUCUMIS SATIVUS* L.

Cucumber.

No. 1802. *Sabzeh Khia*r. Market, Hamadan. Altitude 6,400 feet.222721 and 222722. *CUCURBITA PEPO* L. Cucurbitaceae.

Pumpkin.

222721. No. 1695. *Tokhim-i-Kadoo*. Market, Khoy, Azerbaijan.222722. No. 1776. *Kadoo*. Market, Kermanshah. Altitude 4,500 feet.222723. *DAUCUS CAROTA* L. Apiaceae.

Carrot.

No. 1795. *Havy*. Market, Hamadan. Altitude 6,400 feet.222724. *LACTUCA SATIVA* L. Cichoriaceae.

Lettuce.

No. 1809. *Kahou*. Market, Hamadan. Altitude 6,400 feet.222725. *LENS CULINARIS* Medic. Fabaceae.

Lentil.

No. 1805. *Adas-i-Kazwin*. Market, Hamadan. Altitude 6,400 feet.



## 222697 to 222756—Continued

- 222726 and 222727. *LINUM USITATISSIMUM* L. Linaceae. **Flax.**  
 222726. No. 1713. *Bazrak*. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet.  
 222727. No. 1808. *Bazrak-i-Sefid*. Market, Hamadan. Altitude 6,400 feet.
222728. *MEDICAGO LUPULINA* L. Fabaceae. **Black medic.**  
 No. 1818. Sixty miles northeast of Hamadan, road to Tehran. Altitude 7,000 feet.
- 222729 to 222734. *MEDICAGO SATIVA* L. **Alfalfa.**  
*Yonjeh* is the local name for alfalfa.  
 222729. No. 1707. Twenty-five miles south of Khoy, road to Rezaiyeh. Altitude 4,700 feet.  
 222730. No. 1717. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet.  
 222731. No. 1813. Market, Hamadan. Altitude 6,400 feet.  
 222732. No. 1814. Market, Hamadan. Altitude 6,400 feet.  
 222733. No. 1827. Bam, southeast of Kerman. Altitude 4,300 feet.  
 222734. No. 1828. Hamadan. Altitude 6,400 feet.
222735. *MEDICAGO* sp.  
 No. 1785. Forty miles east of Kermanshah, road to Hamadan. Altitude 4,600 feet. Perennial, procumbent.
222736. *PAPAVER SOMNIFERUM* L. Papaveraceae. **Opium poppy.**  
 No. 1796. *Khashkhash*. Market, Hamadan. Altitude 6,400 feet.
- 222737 and 222738. *PHASEOLUS VULGARIS* L. Fabaceae. **Common bean.**  
 222737. No. 1789. *Lobia Aleh*. Market, Hamadan. Altitude 6,400 feet.  
 222738. No. 1800. *Lobia-i-Aleh*. Market, Hamadan. Altitude 6,400 feet.
- 222739 and 222740. *PRUNUS AMYGDALUS* Batsch. Amygdalaceae. **Almond.**  
 222739. No. 1500. *Badam*. Market, Tabriz. Altitude 4,500 feet. Hard-shelled almond.  
 222740. No. 1501. *Badam*. Market, Tabriz. Altitude 4,500 feet. Small paper-shelled almond.
222741. *PYRUS COMMUNIS* L. Malaceae. **Pear.**  
 No. 1826. Market, Tabriz, Azerbaijan. Altitude 4,500 feet. Bartlett-type pear with good flavor.
- 222742 to 222744. *RAPHANUS SATIVUS* L. Brassicaceae. **Radish.**  
 222742. No. 1715. *Torob-i-Sefid-i-Bozork*. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet. Eaten cooked or raw.  
 222743. No. 1769. *Torob Siah*. Market, Kermanshan. Altitude 4,500 feet. Black radish.  
 222744. No. 1811. *Torob-i-Sefid*. Market, Hamadan. Altitude 6,400 feet. White radish.
222745. *RICINUS COMMUNIS* L. Euphorbiaceae. **Castorbean.**  
 No. 1807. *Karchak*. Market, Hamadan. Altitude 6,400 feet.

**222697 to 222756—Continued**

222746 and 222747. *SESAMUM INDICUM* L. Pedaliaceae. Sesame.

222746. No. 1718. *Konjet*. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet.

222747. No. 1804. *Konjet-i-Sefid*. Market, Hamadan. Altitude 6,400 feet. White sesame, used for oil.

222748. *SORGHUM HALEPENSE* (L.) Pers. Poaceae. Johnson grass.

No. 1784. Forty miles east of Kermanshan, road to Hamadan. Altitude 4,600 feet.

222749 and 222750. *SPINACIA OLERACEA* L. Chenopodiaceae. Spinach.

222749. No. 1716. *Esfenaj*. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet.

222750. No. 1779. *Esfenaj*. Market, Kermanshah. Altitude 4,500 feet.

222751 to 222753. *TRIFOLIUM RESUPINATUM* L. Fabaceae. Persian clover.

222751. No. 1730. *Shabdar*. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet.

222752. No. 1775. *Shabdar*. Market, Hamadan. Altitude 6,400 feet.

222753. No. 1792. *Youjeh*. Market, Hamadan. Altitude 6,400 feet.

222754. *VICIA ERVILIA* (L.) Willd. Fabaceae.

No. 1722. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet.

222755 and 222756. *VIGNA SINENSIS* (Torner) Savi. Fabaceae. Cowpea.

222755. No. 1794. *Lobia-Cheshbolboli*. Market, Hamadan.

222756. No. 1696. *Lobia*. Market, Khoy, Azerbaijan.

**222757 to 222759. SESAMUM ALATUM Thonn. Pedaliaceae.**

From the Union of South Africa. Seeds presented by L. E. Codd, Department of Agriculture, Pretoria, Transvaal. Received Dec. 22, 1954.

222757. P. 3019. Warmbaths, Transvaal.

222758. P. 3063. Nylstroom, Transvaal.

222759. P. 3153. Senanga, Northern Rhodesia.

**222760 and 222761.**

From Iowa. Seeds planted at the Regional Plant Introduction Station, Ames. Numbered Dec. 27, 1954.

222760. *CUCURBITA MOSCHATA* Duch. Cucurbitaceae. Cushaw.

Seeds presented by the American Embassy, Tehran, Iran, Dec. 29, 1953.

222761. *DACTYLIS GLOMERATA* L. Poaceae. Orchard grass.

Collected at Las Rosas, Santa Fe, Argentina, May 15, 1952, by Alan A. Beetle.

**222762 to 222841.**

From Iran. Seeds collected by E. E. Smith, Agricultural Explorer, Horticultural Crops Research Branch, Beltsville, Md. Received Dec. 29, 1954.

Collected November 1954.

222762. *AEGILOPS* sp. Poaceae.

No. 1823. Sixty miles northwest of Tehran, road to Kazwin. Altitude 4,500 feet. Annual grass.

## 222762 to 222841—Continued

222763. *AELUROPOUS LITTORALIS* (Gouan) Parl. Poaceae.

No. 1709. Twenty miles north of Rezaiyeh, Lake Shore, Azerbaijan. Altitude 4,500 feet. Saline resistant; creeping, perennial grass.

222764 and 222765. *ALLIUM CEPA* L. Liliaceae. Onion.

222764. No. 1489. *Piaz-Ialeh*. Market, Tabriz. Altitude 4,500 feet. Large, red onion.

222765. No. 1791. *Piaz*. Market, Hamadan. Altitude 6,400 feet.

222766. *ALLIUM PORRUM* L. Leek.

No. 1488. *Tareh*. Market, Tabriz. Altitude 4,500 feet.

222767. *AVENA* sp. Poaceae.

No. 1754. Twenty miles north of Sarandaj, road to Saghez. Altitude 5,300 feet. Growing on dry rocky slope.

222768 and 222769. *BETA VULGARIS* L. Chenopodiaceae. Beet.

222768. No. 1736. *Choghondar*. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet. Forage beet.

222769. No. 1781. *Chaghondar*. Market, Kermanshah. Altitude 4,500 feet. Used as a vegetable.

222770 to 222774. *CICER ARIETINUM* L. Fabaceae. Chickpea.

222770. No. 1618. *Nakhod*. Livestock Station, Moghen Steppes, Azerbaijan. Altitude 800 feet.

222771. No. 1619. *Nakhod-Siah*. Livestock Station, Moghen Steppes, Azerbaijan. Altitude 800 feet.

222772. No. 1697. *Nakhod-Siah*. Market, Khoy, Azerbaijan.

222773. No. 1750. *Nakhod-Safid*. Bukan, Azerbaijan. Altitude 4,500 feet.

222774. No. 1751. *Nakhod*. Bukan, Azerbaijan. Altitude 4,500 feet.

222775 to 222779. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. Watermelon.

222775. No. 1468. *Kharbozeh*. Market, Tabriz. Altitude 4,500 feet. Fruits round, red-fleshed.

222776. No. 1469. *Kharbozeh*. Market, Tabriz. Altitude 4,500 feet. Fruits large, yellow-fleshed.

222777. No. 1470. *Kharbozeh*. Market, Tabriz. Grown in Malachia.

222778. No. 1476. *Kharbozeh*. Market, Tabriz. Altitude 4,500 feet.

222779. No. 1477. *Kharbozeh*. Market, Tabriz. Altitude 4,500 feet.

222780 and 222781. *CUCUMIS MELO* L. Cucurbitaceae. Muskmelon.

222780. No. 1471. Market, Tabriz. Altitude 4,500 feet.

222781. No. 1790. Market, Hamadan. Altitude 6,400 feet.

222782 and 222783. *CUCUMIS SATIVUS* L. Cucumber.

222782. No. 1474. *Khlar*. Market, Tabriz. Grown in Bilan-kuh. Altitude 4,500 feet.

222783. No. 1764. *Khlar Sabz*. Market, Kermanshah. Altitude 4,500 feet.

222784. *CUCURBITA MAXIMA* Duchesne. Cucurbitaceae. Squash.

No. 1472. *Kadoo*. Market, Tabriz. Altitude 4,500 feet. Fruits reddish-orange, up to 2 feet in diameter.



## 222762 to 222841—Continued

222785. CUCURBITA MOSCHATA Duchesne. Cushaw.

No. 1782. *Kadoo Ghandi*. Market, Kermanshah. Altitude 4,500 feet. Fruits yellow-brown, elliptic, of large size.

222786. CUCURBITA PEPO L. Pumpkin.

No. 1475. *Kadoo*. Market, Tabriz. Altitude 4,500 feet.

222787. CUMINUM CYMINUM L. Apiaceae. Cumin.

No. 1484. *Rdzianeh*. Market, Tabriz. Altitude 4,500 feet. Leaves used for seasoning.

222788 to 222790. CYNODON DACTYLON (L.) Pers. Poaceae. Bermuda grass.

222788. No. 1514. Twenty miles west of Sarab, Azerbaijan. Altitude 5,500 feet.

222789. No. 1742. Salty Lake Rezaiyeh Shore, 26 miles south of Rezaiyeh, Azerbaijan. Altitude 4,300 feet. Saline-resistant grass.

222790. No. 1572. Astara, Azerbaijan. Wet meadow.

222791 to 222793. DACTYLIS GLOMERATA L. Poaceae. Orchard grass.

222791. No. 1509. Sixteen miles east of Tabriz, road to Sarab, Azerbaijan. Altitude 5,900 feet.

222792. No. 1515. Livestock Station, Sarab, Azerbaijan. Altitude 5,600 feet.

222793. No. 1830. Alborz Mountains, 40 miles east of Tehran. Altitude 5,000 feet.

222794. DAUCUS CAROTA L. Apiaceae. Carrot.

No. 1727. *Havij*. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet.

222795. DIANTHUS sp. Silenaceae.

No. 1640. Road from Meshginshahr to Ahar, Azerbaijan. Altitude 4,400 feet. Found on steep rocky slope.

222796. PASPALUM DISTICHUM L. Poaceae.

No. 1571. Astara, Azerbaijan. Growing in wet meadow.

222797. DIGITARIA SANGUINALIS (L.) Scop. Poaceae. Crab grass.

No. 1573. Astara, Azerbaijan.

222798. DRACOCEPHALUM MOLDAVICA L. Menthaceae.

No. 1724. *Badranj*. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet. Leaves used to make beverage.

222799. GAUDINOPSIS MACRA (Bal.) Eig. Poaceae.

No. 1561. Twenty miles east of Ardabil, road to Astara, Azerbaijan. Altitude 4,700 feet.

222800. HORDEUM sp. Poaceae.

No. 1621. *Jow*. Livestock Station, Moghan Steppes, Azerbaijan. Altitude 800 feet. Fall barley.

222801. HORDEUM sp.

No. 1622. *Jow*. Livestock Station, Moghan Steppes, Azerbaijan. Altitude 800 feet. Spring barley.

222802. HORDEUM sp.

No. 1747. *Jow*. Market, Mahabad, Azerbaijan. Altitude 4,500 feet. Irrigated barley.



## 222762 to 222841—Continued

222803. *LENS CULINARIS* Medic. Fabaceae. Lentil.

No. 1749. *Adas*. Bukan, Azerbaijan. Altitude 4,500 feet.

222804 to 222806. *LINUM USITATISSIMUM* L. Linaceae. Flax.

222804. No. 1491. *Bazraki-Ghermez*. Market, Tabriz. Altitude 4,500 feet. Seeds used for cattle feed.

222805. No. 1546. Market, Ardabil, Azerbaijan. Altitude 5,000 feet. Oilseed.

222806. No. 1690. *Bazrak*. Market, Khoy, Azerbaijan. Oilseed.

222807. *LOLIUM* sp. Poaceae.

No. 1519. Livestock Station, Sarab, Azerbaijan. Altitude 5,600 feet.

222808. *LOTUS CORNICULATUS* var. *HIRSUTUS* Koch. Fabaceae.

No. 1817. Sixty miles northeast of Hamadan, road to Tehran. Altitude 7,000 feet.

222809 and 222810. *ORYZA SATIVA* L. Poaceae. Rice.

222809. No. 1700. *Berenj*. Market, Khoy, Azerbaijan.

222810. No. 1701. *Berenj*. Market, Khoy, Azerbaijan.

222811. *PANICUM MILIACEUM* L. Poaceae. Proso.

No. 1825. Market, Tehran. Altitude 4,500 feet. Brown-seeded millet.

222812. *PASPALUM DILATATUM* Poir. Poaceae.

No. 1833. *Rasht*. Perennial grass near Caspian Sea.

222813 to 222815. *PETROSELINUM CRISPUM* (Mill.) Nym. Apiaceae. Parsley.

222813. No. 1725. *Jafari*. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet.

222814. No. 1777. *Jafari*. Market, Kermanshah. Altitude 4,500 feet.

222815. No. 1797. *Jafari*. Market, Hamadan. Altitude 6,400 feet.

222816. *PHASEOLUS AUREUS* Roxb. Fabaceae. Mung bean.

No. 1723. *Mash-i-Siah*. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet.

222817 to 222822. *PHASEOLUS VULGARIS* L. Common bean.

222817. No. 1732. *Lobia*. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet.

222818. No. 1733. *Lobia Austrishi*. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet.

222819. No. 1734. *Lobia Goushti*. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet.

222820. No. 1735. *Lobia*. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet.

222821. No. 1738. *Lobia*. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet.

222822. No. 1741. *Chill-Lobia*. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet.

222823. *PHASEOLUS AUREUS* Roxb. Mung bean.

No. 1752. *Mash-i-Siah*. Bukan, Azerbaijan. Altitude 4,500 feet.

222824. *PISTACIA* sp. Anacardiaceae.

No. 1778. *Vanoushg*. Market, Kermanshah. Altitude 4,000 feet. Fruits boiled with rice as flavoring.

## 222762 to 222841—Continued

222825 and 222826. *RAPHANUS SATIVUS* L. Brassicaceae. Radish.

222825. No. 1496. *Torob-i-Ghepmez*. Market, Tabriz. Altitude 4,500 feet.

222826. No. 1783. *Torob*. Market, Kermanshah. Altitude 4,000 feet.

222827 to 222830. *RICINUS COMMUNIS* L. Euphorbiaceae. Castorbean.

222825. No. 1496. *Torob-i-Ghepmez*. Market, Tabriz. Altitude 4,500 feet.

222828. No. 1702. *Garchak*. Market, Khoy, Azerbaijan.

222829. No. 1740. *Garchak*. Market, Rezaiyeh, Azerbaijan. Altitude 4,500 feet.

222830. No. 1753. Road between Saghez and Sanandaj. Altitude 5,000 feet.

222831. *SESAMUM INDICUM* L. Pedaliaceae. Sesame.

No. 1497. *Konjet*. Market, Tabriz. Altitude 4,500 feet. Oil used for cooking.

222832. *SETARIA ITALICA* (L.) Beauv. Poaceae. Foxtail millet.

No. 1812. *Arzan*. Market, Hamadan. Altitude 6,400 feet. Used for flour.

222833 and 222834. *SOLANUM MELONGENA* L. Solanaceae. Eggplant.

222833. No. 1780. *Badinjan*. Market, Kermanshah.

222834. No. 1793. *Badinjan*. Market, Hamadan. Altitude 6,400 feet.

222835. *SORGHUM VULGARE* Pers. Poaceae.

No. 1570. *Astara*, Azerbaijan.

222836. *SORGHUM* sp.

No. 1587. *Arzan*. Eight miles north of Fork on new road to Moghan, Azerbaijan.

222837. *SPHENOPUS* sp. Poaceae.

No. 1755. Twenty-four miles north of Sanandaj, road to Saghez. Altitude 5,300 feet. Paniculate bunchgrass on dry rocky slope.

222838. *SPINACIA OLERACEA* L. Chenopodiaceae. Spinach.

No. 1494. *Esfenaj*. Market, Tabriz.

222839. *STIPA* sp. Poaceae.

No. 1704. Sixteen miles south of Khoy, road to Rezaiyeh, Azerbaijan. Altitude 5,000 feet. Perennial bunchgrass.

222840. *TRIFOLIUM* sp.

No. 1523. Barough, north of Ardabil, near Mount Sabaian, Azerbaijan.

222841. *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae. Fenugreek.

No. 1801. *Shambableh*. Market, Hamadan. Altitude 6,400 feet. Green forage.

222842 to 222844. *ORYZA SATIVA* L. Poaceae. Rice.

From Liberia. Seeds presented by Gabriel Meaux, Rice Production Specialist, American Embassy, Monrovia. Received Dec. 30, 1954.

222842. *Gissi*.

222843. G.E.B. 24.

222844. *Pannianella*.

222845. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.

From Japan. Cuttings presented by Makatani Kowsei-en, Oitaken. Received Dec. 30, 1954.

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*sesquipedalis*, 215659, 221534.

*sinensis*, 212635, 212927–212931,

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214181, 214352–214354, 215660,

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218124, 219714, 220146, 220209–

220211, 220847–220851, 221729–

221732, 222755, 222756.

sp., 212636.

*Vinca* sp., 21306.

*Vine-mesquite*. See *Panicum obtusum*.

*Viola*, 213183.

*munbyana*, 213182.

*Vitis*, 213547, 215413–215430.

*vinifera*, 213330–213335, 213548–

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*Walnut*, Persian. See *Juglans regia*.

*Wampi*. See *Claucaena lansium*.

*Watermelon*. See *Citrullus vulgaris*.

*Waternut*. See *Eleocharis dulcis*.

*Waxgourd*. See *Benincasa hispida*.

*Wheat*, common. See *Triticum aesti-*

*vum*.

*durum*. See *T. durum*.

*Wheatgrass*, crested. See *Agropyron*

*cristatum*.

intermediate. See *A. intermedium*.

slender. See *A. trachycaulum*.

tall. See *A. elongatum*.

western. See *A. smithii*

*Wildrye*, Canada. See *Elymus cana-*

*densis*.

Virginia. See *E. virginicus*.

Willow. See *Salix alba*.

*Watsonia pyramidata*, 217641.

*Withania coagulans*, 219634.

Wolftail. See *Lycurus phleoides*.

*Xanthorrhoea arborea*, 222176.

*Zamia floridana*, 221275.

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213695, 213774, 213775-213811,  
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218129, 218130-218191, 218195,  
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*Zizania aquatica*, 214886.

*Ziziphus mauritiana*, 212932, 215440,  
215441, 219716.

*Zizyphus nummularia*, 217646.



# *Plant Inventory No. 163*

UNITED STATES DEPARTMENT OF AGRICULTURE

Washington, D. C., June 1964



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## PLANT MATERIAL INTRODUCED JANUARY 1 TO DECEMBER 31, 1955 (NOS. 222846 TO 230876).

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This inventory, No. 163, lists the plant material (Nos. 222846 to 230876) received by the New Crops Research Branch, Crops Research Division, Agricultural Research Service, during the period January 1 to December 31, 1955. From 1954 to 1957, the branch was known as the Plant Introduction Section, Horticultural Crops Research Branch, Agricultural Research Service, United States Department of Agriculture. The inventory is a historical record of plant material introduced for Department and other specialists and is not to be considered as a list of plant material for distribution.

EUGENE GRIFFITH,  
*Botanist.*

*Plant Industry Station,  
Beltsville, Md.*





## INVENTORY

### 222846. *RAUVOLFIA TETRAPHYLLA* L. Apocynaceae

**Fourleaf devilpepper.**

From Costa Rica. Seeds presented by Jorge Leon, Turrialba. Received Jan. 3, 1955.

### 222847. *RAUVOLFIA* sp.

From Colombia. Seeds presented by the Instituto Ciencias Naturales, Bogota. Received Jan. 3, 1955.

### 222848 to 222853.

From the Union of South Africa. Seeds presented by the Department of Agriculture, Pretoria, Transvaal. Received Jan. 3, 1955.

222848. *BRACHIARIA BRIZANTHA* (Hochst.) Stapf Poaceae. **Palisade signalgrass.**

222849. *EHRHARTA CALYCINA* J. E. Sm. Poaceae. **Perennial veldtgrass.**

222850. *HYPARRHENIA HIRTA* (L.) Stapf Poaceae.

222851. *PANICUM COLORATUM* L. Poaceae.

222852. *TETRAGONIA ARBUSCULA* Fenzl Aizoaceae.

222853. *THEMEDA TRIANDRA* Forsk. Poaceae.

### 222854 to 222927. *RHODODENDRON* × *KOSTERIANUM* Schneid. **Ericaceae. Azalea.**

From Great Britain. Plants purchased from J. Waterer Sons & Crisp, Limited, Bagshot, Surrey, England. Received Dec. 30, 1954.

222854. 'Aida' (G&R).

222873. 'Elizabeth'.

222855. 'Afterglow' (M × S).

222874. 'Mrs. A. E. Endtz'.

222856. 'Altaclalense Sunbeam'.

222875. 'Mrs. L. J. Endtz'.

222857. 'Anthony Koster'.

222876. 'Enile Lie Big'.

222858. 'Aurea Grandiflora'.

222877. 'Fanny'.

222859. 'Babeuf' (M × S).

222878. 'Favourite'.

222860. 'Barthold Lazzari'.

222879. 'Frans-Van-der-bom'.

222861. 'Bouquet-De-Flore'.

222880. 'Friesia'.

222862. 'Brazil'.

222881. 'Gloria Mundi'.

222863. 'Bridesmaid'.

222882. 'Gloriosa'.

222864. 'Brilliant Red'.

222883. 'Graciosa'.

222865. 'Chromatella' (G&R).

222884. 'Graf Van Meiran'.

222866. 'Coccinea speciosa'.

222885. 'Grandeur Triumphant'.

222867. 'Comte-de-Gomer'.

222886. 'Hortulanus White'.

222868. 'Comte-de-Papadopoli'.

222887. 'Hrethusa'.

222869. 'Dainty'.

222888. 'Hugo Hardyzer'.

222870. 'Daviesii'.

222889. 'Hugo Koster'.

222871. 'Delicatissima'.

222890. 'Il Tasso'.

222872. 'Dulcinae'.

222891. 'Irene Koster'.

**222854 to 222927—Continued**

222892. 'Isabelle Van Houtte'.	222910. 'Phoebe'.
222893. 'John Kersberger'.	222911. 'Pruteus'.
222894. 'Liebnitz'.	222912. 'Queen Sophie'.
222895. 'Magnifica'.	222913. 'Rosa Plena'.
222896. 'Margot Koster'.	222914. 'Rosette'.
222897. 'Mde Arthur-De-Warrelley'.	222915. 'Sang De Gentbrugge'.
222898. 'Milton' (G&R).	222916. 'T. J. Seidel'.
222899. 'Nancy Waterer'.	222917. 'Shakespeare' (M × S).
222900. 'Narcissiflora'.	222918. 'Superba'.
222901. 'Norma'.	222919. 'Tangerine'.
222902. 'Dr. M. Oosthoek'.	222920. 'David Teniers' (M × S).
222903. 'Mrs. Oosthoek' (M × S).	222921. 'Thisbe' (G&R).
222904. 'Orange Man'.	222922. 'Tubantia'.
222905. 'Orange Blotched'.	222923. 'Unique' (G&R).
222906. 'Orpheus'.	222924. 'J. C. Van-Thol'.
222907. 'Peter Kersbergen'.	222925. 'Victoria'.
222908. 'Phallas'.	222926. 'Vulcan'.
222909. 'Phidias' (G&R).	222927. 'William III' (G&R).

**222928 to 222937**

From the Philippines. Seeds presented by the Central Experiment Station, Laguna.  
Received Jan. 3, 1955.

**222928 to 222931.** *COFFEA EXCELSA* Cheval. Rubiaceae. **Congo coffee.**

222928. Berries pointed.

222929. Berries large with large blossom scar.

222930. Berries large with small blossom scar.

222931. Berries round with protuberance on blossom end.

**222932 and 222933.** *COFFEA LIBERICA* Bull.

**Liberian coffee.**

222932. No. 5. Berries average size.

222933. No. 6. Berries small.

**222934 to 222936.** *COFFEA CANEPHORA* Pierre ex Froehn.

**Coffee.**

222934. No. 7. Berries large.

222935. No. 8. Berries medium.

222936. No. 9. Berries small.

**222937.** *COFFEA* (hybrid).

'Hybrid X'.

**222938.** *LABURNUM ALPINUM* (Mill.) Berch. & Presl. Fabaceae.

**Scotch laburnum.**

From the Netherlands. Seeds presented by the Botanic Gardens, University of Utrecht, Utrecht. Received Jan. 4, 1954.

**222939 to 222952.** *SOLANUM TUBEROSUM* L. Solanaceae.

**Potato.**

From Great Britain. Tubers presented by the Scottish Plant Breeding Station, Pentlandsfield, Roslin, Midlothian, Scotland. Received Jan 4, 1955.

222939. 'International Kidney'.

222941. 'Southesk'.

222940. 'Keppeystone Kidney'.

222942. 'Shamrock'.

**222939 to 222952—Continued**

- |                           |                            |
|---------------------------|----------------------------|
| <b>222943.</b> 1591(b)9.  | <b>222948.</b> G414(a)142. |
| <b>222944.</b> G174(c)51. | <b>222949.</b> G409(b)39.  |
| <b>222945.</b> G182(a)16. | <b>222950.</b> G409(b)55.  |
| <b>222946.</b> G414(a)7.  | <b>222951.</b> G489(c)45.  |
| <b>222947.</b> G414(a)64. | <b>222952.</b> G603(6).    |

**222953 to 223023**

From Iran. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Jan. 4, 1955.

**222953 to 222955.** *AGROPYRON CRISTATUM* (L.) Gaertn. Poaceae.

**Crested wheatgrass.**

**222953.** Col. No. 1521. Twenty-three km. east of Sarab, road to Ardabil, Azerbaijan. Nov. 6, 1954. Elevation 2,000 m. Found on dry, barren hilltop.

**222954.** Col. No. 1582. Sixty-three km. north of Ardabil, road to Moghan, Azerbaijan. Nov. 9, 1954. Elevation 1,100 m.

**222955.** Col. No. 1706. Thirty km. south of Khoy, road to Rezaiyeh, Azerbaijan. Nov. 15, 1954. Elevation 1,600 m.

**222956.** *AGROPYRON BUONAPARTIS* (Spreng.) Dur. & Schinz

**Wheatgrass.**

Col. No. 1824. One hundred and eleven km. northwest of Tehran, road to Kaziwan. Nov. 19, 1954. Elevation 1,500 m.

**222957.** *AGROPYRON CRISTATUM* (L.) Gaertn.

**Crested wheatgrass.**

Col. No. 1831. Alborz Mountains, 74 km. northeast of Tehran. Nov. 22, 1954. Elevation 1,600 m.

**222958 and 222959.** *AGROPYRON ELONGATUM* (Host) Beauv.

**Tall wheatgrass.**

Forty-four km. north of Ardabil, road to Moghan, Azerbaijan. Nov. 9, 1954. Elevation 1,500 m. Growing on dry rocky slope.

**222958.** Col. No. 1579.

**222959.** Col. No. 1580.

**222960.** *AGROPYRON ELONGATIFORME* Drobov

**Wheatgrass.**

Col. No. 1505. Thirty km. east of Tabriz, road to Sarab, Azerbaijan. Nov. 6, 1954. Elevation 1,900 m. Grows to 1 m. high.

**222961.** *AGROPYRON INTERMEDIUM* (Host) Beauv.

**Intermediate wheatgrass.**

Col. No. 1820. One hundred and sixteen km. northeast of Hamedan, road to Tehran. Nov. 19, 1954. Elevation 2,600 m.

**222962.** *AGROPYRON* sp.

Col. No. 1829. Seventy-four km. east of Tehran, Alborz Mountains. Nov. 22, 1954. Elevation 1,700 m.

**222963.** *AIRA* sp. Poaceae.

Col. No. 1710. Twenty-eight km. north of Rezaiyeh, lake shore, Azerbaijan. Nov. 15, 1954. Elevation 1,500 m. Salt-resistant bunchgrass.

**222964.** *ANETHUM GRAVEOLENS* L. Apiaceae.

**Dill.**

Col. No. 1463. 'Sheveed'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m. Leaves used as flavoring in cooking.

**222965.** *APERA INTERRUPTA* (L.) Beauv. Poaceae.

Col. No. 1578. Forty-four km. north of Ardabil, road to Moghan, Azerbaijan. Nov. 9, 1954. Elevation 1,500 m. Small, fine-leaved bunchgrass growing on dry rocky slope.



**222953 to 223023—Continued****222966.** *APERA* sp.

Col. No. 1705. Thirty km. south of Khoy, road to Rezaiyeh, Azerbaijan. Nov. 15, 1954. Elevation 1,600 m.

**222967.** *APIUM GRAVEOLENS* L. Apiaceae.**Celery.**

Col. No. 1597. 'Karafs'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m.

**222968.** *BROMUS TOMETELLUS* Boiss. Poaceae.**Brome.**

Col. No. 1832. Northwest of Shiraz. Well grazed.

**222969.** *ARUNDO DONAX* L. Poaceae.**Giantreed.**

Col. No. 1585. Fifteen km. north of fork on the new road to Moghan, Azerbaijan. Nov. 9, 1954. Elevation 1,100 m.

**222970.** *BETA VULGARIS* L. Chenopodiaceae.**Common beet.**

Col. No. 1598. 'Choghondar Ghand'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m.

**222971.** *BRASSICA OLERACEA* var. *BOTRYTIS* L. Brassicaceae.**Cauliflower.**

Col. No. 1605. 'Kalam Pich'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m.

**222972 and 222973.** *BRASSICA OLERACEA* var. *GONGYLODES* L.**Kohlrabi.****222972.** Col. No. 1606. 'Kalam Ghomri'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m.**222973.** Col. No. 1552. 'Kalam Ghomri'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 1,600 m.**222974 and 222975.** *CAPSICUM FRUTESCENS* L. Solanaceae.**Redpepper.****222974.** Col. No. 1599. 'Felfel'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m.**222975.** Col. No. 1600. 'Felfel Sabz'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Small green pepper.**222976 to 222979.** *CICER ARIETINUM* L. Fabaceae.**Chickpea.****222976.** Col. No. 1451. 'Nakhood-i-Zart'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m.**222977.** Col. No. 1452. 'Nakhood'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m. Seeds white.**222978.** Col. No. 1453. 'Nakhood'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m. Seeds black.**222979.** Col. No. 1454. 'Nakhood'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m. Seeds white.**222980 to 222984.** *CUCUMIS MELO* L. Cucurbitaceae.**Muskmelon.****222980.** Col. No. 1466. 'Kharbozeh'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m. Fruit round, yellow-green; flesh yellowish-white.**222981.** Col. No. 1592. 'Kharbozeh Kadkhoda'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m.**222982.** Col. No. 1593. 'Kharbozeh Yazd'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m. Fruit large, yellow.**222983.** Col. No. 1594. 'Kharbozeh'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m. Fruit round.**222984.** Col. No. 1596. 'Kharbozeh'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m. Fruit elongate.

## 222953 to 223023—Continued

- 222985 to 222987. CUCUMIS SATIVUS L. Cucumber.**  
 222985. Col. No. 1467. 'Khlar'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m. Plants wild.  
 222986. Col. No. 1590. 'Khlar'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m. Said to be excellent.  
 222987. Col. No. 1591. 'Khlar'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m.
- 222988. ERAGROSTIS PILOSA (L.) Beauv. Poaceae. Lovegrass.**  
 Col. No. 1787. Seventy-four km. east of Kermanshah, road to Hamedan. Nov. 18, 1954. Elevation 1,500 m.
- 222989. FESTUCA SCLEROPHYLLA Boiss. Poaceae. Fescue.**  
 Col. No. 1512. Thirty km. east of Tabriz, road to Sarab, Azerbaijan. Nov. 6, 1954. Elevation 1,600 m. Wild.
- 222990. FOENICULUM VULGARE Mill. Apiaceae. Fennel.**  
 Col. No. 1728. 'Razianeh'. Market, Rezaieyeh, Azerbaijan. Nov. 16, 1954. Elevation 1,500 m. Used for flavoring cheese.
- 222991. HELIANTHUS ANNUUS L. Asteraceae. Common sunflower.**  
 Col. No. 1608. 'Aftab Gartan'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m.
- 222992. HORDEUM VULGARE L. Poaceae. Barley.**  
 Col. No. 1518. Livestock Station, Sarab, Azerbaijan. Nov. 6, 1954. Elevation 1,850 m. Weed in cultivated fields.
- 222993 and 222994. LACTUCA SATIVA L. Cichoriaceae. Garden lettuce.**  
 222993. Col. No. 1609. 'Kahou Siah'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Black type.  
 222994. Col. No. 1610. 'Kahou Sefid'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m. White type.
- 222995 to 222997. LENS CULINARIS Medic. Fabaceae. Lentil.**  
 222995. Col. No. 1449. 'Adas'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m.  
 222996. Col. No. 1450. 'Adas'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m.  
 222997. Col. No. 1615. 'Adas'. Livestock Station, Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 260 m.
- 222998. LINUM USITATISSIMUM L. Linaceae. Flax.**  
 Col. No. 1617. 'Bazrak'. Livestock Station, Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 260 m. Oilseed.
- 222999. MEDICAGO SATIVA L. Fabaceae. Alfalfa.**  
 Col. No. 1455. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m.
- 223000. MELILOTUS DENTATA (Wald. & Kit.) Pers. Fabaceae. Sweetclover.**  
 Col. No. 1507. Thirty km. east of Tabriz, road to Sarab, Azerbaijan. Nov. 6, 1954. Elevation 1,900 m.
- 223001. NARDURUS ORIENTALIS Boiss. Poaceae.**  
 Col. No. 1882. One hundred and ten km. northwest of Tehran, road to Qazaan. Nov. 19, 1954. Elevation 1,500 m. Plant habit similar to *Festuca* spp.
- 223002 and 223003. PHASEOLUS AUREUS Roxb. Fabaceae. Mung bean.**  
 223002. Col. No. 1456. 'Mash'. Market, Tabriz. Nov. 5, 1954.  
 223003. Col. No. 1461. 'Mash'. Market, Tabriz. Nov. 5, 1954.

**222953 to 223023—Continued**

- 223004 to 223008.** *PHASEOLUS VULGARIS* L. **Common bean.**  
**223004.** Col. No. 1457. 'Lubia'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m.  
**223005.** Col. No. 1458. 'Lubia'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m.  
**223006.** Col. No. 1459. 'Ablagh-Lubia'. Market, Tabriz. Nov. 5, 1954. Elevation 11,500 m.  
**223007.** Col. No. 1462. 'Lubia'. Market, Tabriz. Nov. 5, 1954.  
**223008.** Col. No. 1607. 'Lubia'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m.
- 223009.** *PISUM SATIVUM* L. **Fabaceae.** **Garden pea.**  
 Col. No. 1535. 'Nakhod Farangai'. Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 1,600 m.
- 223010.** *PUCCINELLIA* sp. **Poaceae.**  
 Col. No. 1513. Thirty km. east of Tabriz, road to Sarab, Azerbaijan. Nov. 6, 1954. Elevation 1,900 m.
- 223011 and 223012.** *RAPHANUS SATIVUS* L. **Brassicaceae.** **Radish.**  
**223011.** Col. No. 1537. 'Torob'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 1,600 m. Color white.  
**223012.** Col. No. 1595. 'Torobcheh'. Moghan Steppes, Azerbaijan. Elevation 125 m. Root red; flesh firm.
- 223013.** *RICINUS COMMUNIS* L. **Euphorbiaceae.** **Castorbean.**  
 Col. No. 1616. 'Karchak'. Livestock Station, Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 250 m.
- 223014.** *SESAMUM INDICUM* L. **Pedaliaceae.** **Sesame.**  
 Col. No. 1614. 'Konjet'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Source of oil.
- 223015 to 223018.** *SOLANUM MELONGENA* L. **Solanaceae.** **Eggplant.**  
**223015.** Col. No. 1601. 'Badenjan Rasmi Siah'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m.  
**223016.** Col. No. 1602. 'Badenjan Sefid'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m. Fruit white.  
**223017.** Col. No. 1603. 'Badenjan'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m. Fruit large, black, excellent.  
**223018.** Col. No. 1604. 'Badenjan Ghalami'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m. Fruit large, black, excellent.
- 223019.** *THUJA ORIENTALIS* L. **Pinaceae.** **Oriental arborvitae.**  
 Col. No. 1613. 'Sarve Khormei'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 125 m.
- 223020.** *TRIFOLIUM FRAGIFERUM* L. **Fabaceae.** **Strawberry clover.**  
 Col. No. 1816. One hundred and ten km. northeast of Hamedan, road to Tehran. Nov. 19, 1954. Elevation 2,300 m.
- 223021.** *TRIFOLIUM REPENS* L. **Whiteclover.**  
 Col. No. 1815. One hundred and ten km. northeast of Hamedan, road to Tehran. Nov. 19, 1954. Elevation 2,300 m.
- 223022.** *TRIGONELLA FOENUM-GRÆCUM* L. **Fabaceae.** **Fenugreek.**  
 Col. No. 1534. 'Shambalilem'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 1,600 m. Seed used as a laxative for cattle.



**223953 to 223023—Continued**

**223023.** *VIGNA SINENSIS* (Torner) Savi Fabaceae. **Common cowpea.**

Col. No. 1460. 'Lobia-cheshmbolboli'. Market, Tabriz. Nov. 5, 1954. Elevation 1,500 m.

**223024.** *BOTHRIOCHLOA ISCHAEMUM* (L.) Keng Poaceae.  
**Turkestan bluestem.**

From Greece. Seeds presented by the Range Management Specialist, Athens. Received Jan. 6, 1955.

Collected in eastern Macedonia during August, 1954. Elevation 650 m.  
Average annual precipitation 65 cm.

**223025 to 223030.** *GOSYPIUM* (hybrids). Malvaceae. **Cotton.**

From Brazil. Seeds presented by the Instituto Agronómico, Campinas, São Paulo  
Received Jan. 6, 1955.

**223025.** Delfos 40/137. **223028.** I. A. G. 48/530.

**223026.** D. P. 12-51/577. **223029.** I. A. G. 48/571.

**223027.** I. A. Campinas 817. **223030.** I. A. G. 43/981.

**223031.** *RAUVOLFIA VOMITORIA* Afzel. Apocynaceae. **Devilpepper.**

From the Belgian Congo. Cuttings presented by Father H. Callens, Kisantu. Received Jan. 13, 1955.

**223032.** *ZINNIA PUMILA* A. Gray Asteraceae.

From Mexico. Seeds presented by T. Rzedowski, San Luis Potosi. Received Jan. 17, 1955.

Collected near Laguna Seca, San Luis Potosi.

**223033 to 223036.** *CAPSICUM FRUTESCENS* L. Solanaceae. **Redpepper.**

From Spain. Seeds presented by the American Embassy, Madrid. Received Jan. 6, 1955.

**223033.** 'No. 1'. **223035.** 'Ocal'.

**223034.** 'Dulce'. **223036.** 'Picante'.

**223037 to 223129.**

From Great Britain. Plants purchased from the Knap Hill Nursery, Limited, Woking, Surrey, England. Received Jan. 7, 1955.

**223037 to 223108.** *RHODODENDRON* (hybrids). Ericaceae.

**223037.** 'Ada Brunieres'. **223050.** 'Fireglow'.

**223038.** 'Albatross'. **223051.** 'Flaming June'.

**223039.** 'Ann Callingham'. **223052.** 'Florence Pilkington'.

**223040.** 'Avocet'. **223053.** 'Gannett'.

**223041.** 'Barbara Jenkinson'. **223054.** 'Golderest'.

**223042.** 'Bullfinch'. **223055.** 'Gold Eagle'.

**223043.** 'Buzzard'. **223056.** 'Goldeneye'.

**223044.** 'Chaffinch'. **223057.** 'Goldfinch'.

**223045.** 'Colin Kenrick'. **223058.** 'Golden Oriole'.

**223046.** 'Donald Waterer'. **223059.** 'Gwenda Kitcat'.

**223047.** 'Eva Goude'. **223060.** 'Gwyneth'.

**223048.** 'Exbury Azalea Brazil A'. **223061.** 'Harvest Moon'.

**223049.** 'Firecrest'. **223062.** 'Hawfinch'.



**223037 to 223129—Continued****223037 to 223108—Continued**

223063. 'Heron'.	223086. 'Occidentalis Hybrid A'.
223064. 'Hiawatha'.	223087. 'Occidentalis Hybrid B'.
223065. 'Homebush'.	223088. 'Occidentalis Hybrid C'.
223066. 'Hoopoe'.	223089. 'Occidentalis Hybrid D'.
223067. 'Iora'.	223090. 'Penguin'.
223068. 'Jock Coutts'.	223091. 'Red Indian'.
223069. 'Kestrel'.	223092. 'Redstart'.
223070. 'Knap Hill Apricot'.	223093. 'Rosella'.
223071. 'Knap Hill Orange'.	223094. 'Ruddy Duck'.
223072. 'Knap Hill Pink'.	223095. 'Ruth Davies'.
223073. 'Knap Hill Red'.	223096. 'Sandpiper'.
223074. 'Knap Hill White'.	223097. 'Satan'.
223075. 'Knap Hill Yellow'.	223098. 'Spoonbill'.
223076. 'Lady Derby'.	223099. 'Sunset'.
223077. 'Lady Rosebery'.	223100. 'Sylphides'.
223078. 'Lapwing'.	223101. 'Tanager'.
223079. 'Linnet'.	223102. 'Toucan'.
223080. 'Marion Merriman'.	223103. 'Troupial'.
223081. 'Mephistopheles'.	223104. 'Violet Gordon'.
223082. 'Merlin'.	223105. 'Viscosepala'.
223083. 'Mrs. A. Waterer'.	223106. 'Whitethroat'.
223084. 'Mrs. Gomer Waterer'.	223107. 'Wryneck'.
223085. 'Nys. 33'.	223108. 'Yaffle'.

**223109 to 223129. RHODODENDRON × KOSTERIANUM Schneid. Koster azalea.**

223109. 'Ambrose Verschaffelt'.	223120. 'Hamlet'.
223110. 'Chevalier de Reali'.	223121. 'Hugo Koster'.
223111. 'Chicago'.	223122. 'Jeanne Costbeck'.
223112. 'Consul Ceresole'.	223123. 'King Albert'.
223113. 'Dr. Reitenbach'.	223124. 'Marmion'.
223114. 'F. de Koninck'.	223125. 'Nicholas Beets'.
223115. 'Frans van der Bom'.	223126. 'Queen Emma'.
223116. 'General Vetter'.	223127. 'Queen Sophie'.
223117. 'Goldball'.	223128. 'Robespierre'.
223118. 'Golden Queen'.	223129. 'T. J. Seidel'.
223119. 'Golden Sunlight'.	

**223130 to 223174.**

From Jordan. Seeds presented by the United States Operations Mission to Jordan, Amman. Received Jan. 7, 1955.

<b>223130 to 223149. HORDEUM VULGARE L. Poaceae.</b>	<b>Barley.</b>
223130. 'Arabi'.	223132. B. M. C.
223131. 'Baladi'.	223133. B. 22.

**222130 to 223174—Continued****223130 to 223149—Continued**

223134. B. 24.	223142. 'Habashi'.
223135. B. 172.	223143. 'Herawi'.
223136. B. 182.	223144. 'Italian'.
223137. B. 303.	223145. 'Konari'.
223138. C. 25.	223146. 'Nabawi'.
223139. F. 48.	223147. Sword-like.
223140. F. 78.	223148. 'Tribute'.
223141. F. K. 51	223149. Two lines.

**223150 to 223174. TRITICUM AESTIVUM L. Poaceae. Common wheat.**

223150. 'Auttma White'.	223163. 'Karaki Red'.
223151. C. C. C.	223164. 'Ma'ni Yellow'.
223152. 'Durgi Karaki'.	223165. 'Moghrabi'.
223153. 'Fair Nayimia'	223166. P. I.
223154. F-8.	223167. 'Salti Auttma Hiti'.
223155. 'Gubieha Auttma'.	223168. 'Salti Balga'.
223156. 'Harani Auttma'.	223169. 'Salti Na'zimia'.
223157. 'Italian'.	223170. 'Salti Nors'i'.
223158. 'Jaljuli 5'.	223171. 'Tafeelih Riti'.
223159. 'Jaljuli 45'.	223172. W. I. 17.
223160. 'Jaljuli 50'.	223173. 'Yellow Jarash'.
223161. 'Kafel Rahman'.	223174. 'Yellow Zghabi'.
223162. 'Karaki Moghrabi'.	

**223175 and 223176. ORYZA SATIVA L. Poaceae. Rice.**

From Formosa. Seeds presented by Dr. Eikichi Iso, through the American Embassy, Taipei. Received Apr. 28, 1954. Numbered Jan. 10, 1955.

223175. 'Shinchiku No. 7'.

223176. 'Taichu-iko No. 60'.

**223177 to 223184.**

From Greece. Seeds presented by the American Embassy, Athens. Received Jan. 10, 1955.

**223177. FESTUCA sp. Poaceae.**

On road from Egoumenitsa to Ioannina. Sept. 14, 1954. Elevation 300 m.

**223178. LOLIUM PERENNE L. Poaceae. Ryegrass.**

Collected by Ch. Aravantinos, village of Ayia Paraskevi. Sept. 12, 1954. Elevation 1,000 m.

**223179 to 223182. PHALARIS AQUATICA L. Poaceae. Large canarygrass.**

223179. Highway from Egoumenitsa to Ioannina. Sept. 15, 1954. Elevation 280 m.

223180. Road from Agrinion to Amphiloehia. Sept. 12, 1954. Elevation 55 m.

223181. Road from Domokos (Metallion) to Lamia. Sept. 8, 1954. Elevation 160 m.

223182. From Preveza to Yannina. Sept. 15, 1954.

**223177 to 223184—Continued**

**223183.** *TRIFOLIUM FRAGIFERUM* L. Fabaceae. **Strawberry clover.**  
Near the highway from Amphiloehia to Arta. Sept. 15, 1954.

**223184.** *TRIFOLIUM REPENS* L. **Whiteclover.**  
Road from Kalambaka to Metsovon. Sept. 9, 1954. Elevation 660 m.

**223185 to 223192.** *TRITICUM AESTIVUM* L. Poaceae. **Common wheat.**  
From Ecuador. Seeds presented by the Servicio Cooperativo Inter-Americano Agricultura, Quito. Received Jan. 11, 1955.

**223185.** 'Atacatzto No. 1', 3138. **223189.** 'Inca Roca No. 1', 3332-3.

**223186.** 'Atahualpa No. 1', 3939. **223190.** 'Kuntur No. 1', 3470.

**223187.** 'Hatun-Muru No. 1', 745-1. **223191.** 'Tambillo No. 1', 753-1.

**223192.** 'Viracocha No. 2', 4678.

**223188.** 'Huascav No. 1', 3247.

**223193 to 223229**

From India. Budsticks presented by the Horticultural Development Officer, Assam. Received Jan. 12, 1955.

**223193.** *CITRUS* sp. Rutaceae.  
'Ada-jamir'.

**223194 and 223195.** *CITRUS AURANTIFOLIA* (Christm.) Swingle **Lime.**

**223194.** 'Abhayapuri'.

**223195.** 'Karimganj'.

**223196.** *CITRUS AURANTIUM* L. **Sour orange.**  
'Gond-huntra'.

**223197.** *CITRUS GRANDIS* (L.) Osbeck **Pummelo.**  
'Khanapara Rabab'.

**223198.** *CITRUS INDICA* Tanaka **India wild orange.**  
'Banaria Kamala'.

**223199 to 223204.** *CITRUS JAMBHIRI* Lush.

**223199.** 'Kata Jamir'. **223202.** 'Sinduri-nemu-tenga'.

**223200.** 'Mitha-tulia'. **223203.** 'Soh-jhalia'.

**223201.** 'Nemu-tenga'. **223204.** 'Soh-myndong'.

**223205.** *CITRUS LIMETTA* Risso **Sweet lime.**  
'Mitha-kagzi'.

**223206 to 223214.** *CITRUS LIMON* (L.) Burm. f. **Lemon.**

**223206.** 'Assam'. **223211.** 'Pani-jamir'.

**223207.** 'Elachi-lebu'. **223212.** 'Pati Lebu'.

**223208.** 'Godha-pati-lebu'. **223213.** 'Soh-long'.

**223209.** 'Jora-tenga'. **223214.** 'Soh-synteng'.

**223210.** 'Kata Jamuri'.

**223215.** *CITRUS MACROPTERA* Mont.  
'Sat-kara'.

**223216 to 223218.** *CITRUS MEDICA* L. **Citron.**

**223216.** 'Bira-jora'.

**223217.** 'Mitha-jora'.

**223218.** 'Soh-manong'.

**223193 to 223229—Continued****223219 to 223221.** CITRUS MEGALOXYCARPA Lush.

223219. 'Aijahal'.

223220. 'Bar-tenga'.

223221. 'Hukma-tenga'.

**223222.** CITRUS NOBILIS Lour.**King orange.**

'Jeneru-tenga'.

**223223 to 223225.** CITRUS RETICULATA Blanco**Mandarin orange.**

223223. 'Narangi'.

223224. 'Soh-niamtra'.

223225. 'Soh-siem'.

**223226.** CITRUS SINENSIS (L.) Osbeck**Sweet orange.**

'Soh-niangriang'.

**223227.** CITRUS LATIPES (Swingle) Tanaka

'Soh-kymphorshrieh'.

**223228.** CITRUS KARNA Raf.

'Soh-sarkar'.

**223229.** CITRUS LATIPES (Swingle) Tanaka

'Soh-shrkhait'.

**223230 to 223304.**

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Maryland. Received Jan. 12, 1955.

**223230 and 223231.** AGROPYRON TRICHOPHORUM (Link) Richt. Poaceae.**Stiffhair wheatgrass.**

**223230.** Col. No. 1079. Kalifgan, Kataghan. Sept. 17, 1954. Elevation. 1,500 m.

**223231.** Col. No. 1081. 'Jawak' 'Baghdak'. Kalifgan, Kataghan. Sept. 17, 1954. Elevation 1,730 m. Used as forage.

**223232.** AGROPYRON SP.

Col. No. 1109. Barak, Badakhshan. Sept. 20, 1954. Elevation 1,600 m. Perennial bunchgrass at edge of irrigation ditch. Used as cattle feed.

**223233.** AGROPYRON SP.

Col. No. 1130. 'Alef'. Kahash, Jurm. Badakhshan. Sept. 21, 1954. Elevation 2,200 m.

Forage crop.

**223234.** AGROPYRON ELONGATIFORME Drobov**Wheatgrass.**

Col. No. 1132. 'Moi-khok'. Khash, Jurm, Badakhshan. Sept. 21, 1954. Elevation 2,200 m. Plants to 1.25 m. high.

**223235.** AGROPYRON CILIATIFLORUM Roshev.**Wheatgrass.**

Col. No. 1237. Kataghan. Sept. 30, 1954. Elevation 2,200 m. Perennial bunchgrass; used as cattle feed.



**223230 to 223304—Continued****223236. AGROPYRON sp.**

Col. No. 1247. Kataghan. Sept. 30, 1954. Elevation 3,300 m. Perennial bunchgrass.

**223237. ANDROPOGON sp. Poaceae.**

Col. No. 1362. 'Serbagah'. Kunar, Eastern Province. Oct. 14, 1954. Elevation 1,230 m. Perennial bunchgrass.

**223238. ANDROPOGON sp.**

Col. No. 1363. 'Shinarai'. Kunar, Eastern Province. Oct. 14, 1954. Elevation 1,230 m.

**223239 and 223240. AGROSTIS ALBA L. Poaceae.****Redtop.**

**223239.** Col. No. 1108. Barak, Badakhshan. Sept. 20, 1954. Elevation 1,600 m. Perennial bunchgrass; used as cattle feed.

**223240.** Col. No. 1129. 'Balaghdah'. Khash, Jurm, Badakhshan. Sept. 21, 1954.

**223241. AGROSTIS SEMIVERTICILLATA (Forsk.) C. Chr.****Bentgrass.**

Col. No. 1175. Faizabad, Badakhshan. Sept. 25, 1954. Elevation 1,300 m. Perennial broad-leaved bunchgrass.

**223242. AGROSTIS ALBA L.****Redtop.**

Col. No. 1238. Kataghan. Sept. 30, 1954. Elevation 2,100 m. Perennial pasture grass.

**223243. ARISTIDA sp. Poaceae.**

Col. No. 1059. Khairkhana Pass, 16 km. north of Kabul. Sept. 14, 1954. Elevation 2,000 m. Perennial bunchgrass.

**223244. ARISTIDA sp.**

Col. No. 1060. 'Kinak'. Kabul. Sept. 14, 1954. Elevation 1,700 m.

**223245. ASTRAGALUS sp. Fabaceae.**

Col. No. 1260. Kataghan. Oct. 1, 1954. Elevation 3,000 m. Plants about 1 m. high; well browsed.

**223246. BROMUS STERILIS L. Poaceae.****Poverty brome.**

Col. No. 1173. 'Chem' or 'Alaf'. Faizabad, Badakhshan. Sept. 25, 1954. Elevation 1,300 m. Annual grass; used as a forage crop.

**223247. CICER ARIETINUM L. Fabaceae.****Chickpea.**

Col. No. 1244. 'Nakhod'. Kataghan. Sept. 30, 1954. Elevation 2,100 m.

**223248 and 223249. CYNODON DACTYLON (L.) Pers. Poaceae. Bermudagrass.**

**223248.** Col. No. 1072. Khanabad River, Khanabad, Kataghan. Sept. 17, 1954. Elevation 1,100 m.

**223249.** Col. No. 1195. Trail to Yakatal, Badakhshan. Sept. 26, 1954. Elevation 2,000 m.

**223250. DACTYLIS GLOMERATA L. Poaceae.****Orchardgrass.**

Col. No. 1196. Trail to Yakatal, Badakhshan. Sept. 26, 1954. Elevation 2,000 m.

**223230 to 223304—Continued****223251.** *DACTYLOCTENIUM AEGYPTIUM* (L.) Beauv. Poaceae.**Durban crowfootgrass.**

Col. No. 1331. 'Shamegh'. Jalalabad. Oct. 13, 1954. Elevation 700 m. Perennial grass; eaten green or dry by cattle.

**223252.** *DIGITARIA SANGUINALIS* (L.) Scop. Poaceae.**Crabgrass.**

Col. No. 1070. Khanabad, Kataghan. Sept. 17, 1954. Elevation 550 m. Perennial creepinggrass.

**223253.** *DIGITARIA* sp.

Col. No. 1149. 'Kabal'. Jurm, Badakhshan. Sept. 22, 1954. Elevation 1,600 m. Perennial bunchgrass.

**223254.** *ECHINOCHLOA COARCTATA* (Stev.) Koss. Poaceae.

Col. No. 1066. 'Shamaq'. Doshi, Kataghan. Sept. 15, 1954. Elevation 1,000 m. Perennial bunchgrass; grain used as feed.

**223255.** *ELYMUS* sp. Poaceae.

Col. No. 1236. 'Saozkeh'. Kataghan. Sept. 30, 1954. Perennial bunchgrass.

**223256.** *ELYMUS* sp.

Col. No. 1248. Kataghan. Sept. 30, 1954. Elevation 2,200 m. Perennial bunchgrass.

**223257.** *ELYMUS* sp.

Col. No. 1249. Kataghan. Sept. 30, 1954. Elevation 2,300 m.

**223258.** *ELYMUS* sp.

Col. No. 1251. Kataghan. Sept. 30, 1954. Elevation 2,300 m. Perennial bunchgrass.

**223259 and 223260.** *ERAGROSTIS PILOSA* (L.) Beauv. Poaceae. **India lovegrass.****223259.** Col. No. 1235. 'Alef'. Farkharn, Kataghan. Sept. 29, 1954. Elevation 1,000 m. Perennial bunchgrass; a secondary forage plant.**223260.** Col. No. 1326. 'Shamegh'. Jalalabad. Oct. 13, 1954. Elevation 750 m. Forage crop.**223261.** *ERAGROSTIS* sp.

Col. No. 1328. Jalalabad. Oct. 13, 1954. Elevation 750 m. Perennial grass to 6 dm. high.

**223262 and 223263.** *ERAGROSTIS POAEIOIDES* Beauv.**Lovegrass.****223262.** Col. No. 1329. 'Shamegh'. Jalalabad. Oct. 13, 1954. Elevation 750 m. Perennial bunchgrass; used as forage.**223263.** Col. No. 1365. 'Shinala'. Kunar, Eastern Province. Oct. 14, 1954. Elevation 1,500 m. Small prostrate pasture grass.**223264.** *GLYCYRRHIZA* sp. Fabaceae.

Col. No. 1085. Kishm, Badakhshan. Sept. 18, 1954. Growing on river bank.

**223265.** *HETEROPOGON* sp. Poaceae.

Col. No. 1363. 'Sabokai'. Kunar, Eastern Province. Oct. 14, 1954. Elevation 1,200 m. Well grazed perennial bunchgrass.

**223266.** *HIBISCUS CANNABINUS* L. Malvaceae.**Kenaf.**

Col. No. 1286. 'Kendor' or 'Sunn'. Khanabad, Kataghan. Oct. 3, 1954.

**223267.** *INCARVILLEA* sp. Bignoniaceae.

Col. No. 1202. Trail to Yakatal, Badakhshan. Sept. 26, 1954. Elevation 2,300 m.

**223268.** *KOELERIA PHLEOIDES* (Vill.) Pers. Poaceae.

Col. No. 1172. Barak, Badakhshan. Sept. 23, 1954. Elevation 1,700 m. Annual grass on dry granitic slope.

**223230 to 223304—Continued****223269.** *LATHYRUS CICERA* L. Fabaceae.**Flatpod peavine.**

Col. No. 1229. 'Pateque'. Kataghan. Sept. 29, 1954. Elevation 1,675 m. Green forage.

**223270.** *LATHYRUS SATIVUS* L.**Grass peavine.**

Col. No. 1242. Kataghan. Sept. 30, 1954. Elevation 2,160 m. Used for making flour.

**223271.** *LENS CULINARIS* Medic. Fabaceae.**Lentil.**

Col. No. 1096. 'Nesk' or 'Adas'. Market Faizabad, Badakhshan. Sept. 19, 1954.

**223272.** *LOTUS CORNICULATUS* L. Fabaceae.**Birdsfoot trefoil.**

Col. No. 1076. Kalifgan, Kataghan. Sept. 17, 1954. Elevation 1,500 m. Used for forage.

**223273.** *ONOBRYCHIS* sp. Fabaceae.

Col. No. 1200. Trail to Yakatal, Badakhshan. Sept. 26, 1954. Elevation 2,000 m. Legume; pods spiny; well grazed.

**223274.** *ORYZOPSIS CAERULESCENS* (Desf.) Hack. Poaceae.

Col. No. 1169. Barak, Badakhshan. Sept. 23, 1954. Elevation 1,900 m. Annual grass, growing on dry granitic slope.

**223275.** *PANICUM MILIACEUM* L. Poaceae.**Proso millet.**

Col. No. 1058. 'Arzan'. Kabul.

**223276.** *PANICUM* sp.

Col. No. 1327. 'Shamegh'. Jalalabad. Oct. 13, 1954. Elevation 760 m. Perennial bunchgrass.

**223277.** *PENNISETUM* sp. Poaceae.

Col. No. 1088. Kokcha River Valley, near Faizabad, Badakhshan. Sept. 18, 1954. Elevation 1,160 m. Perennial bunchgrass; used for forage.

**223278.** *PENNISETUM FLACCIDUM* Griseb.

Col. No. 1171. Barak, Badakhshan. Sept. 23, 1954. Elevation 1,591 m. Perennial bunchgrass on dry granitic slope.

**223279.** *PENNISETUM* sp.

Col. No. 1364. 'Sogeiah'. Kunar, Eastern Province. Oct. 14, 1954. Elevation 1,204 m. Well-grazed, perennial bunchgrass.

**223280 to 223282.** *PHASEOLUS AUREUS* Roxb. Fabaceae.**Mung bean.****223280.** Col. No. 1061. 'Mash'. Kabul. Sept. 14, 1954. Elevation 1,591 m. Used for forage.**223281.** Col. No. 1093. 'Mash'. Market, Faizabad, Badakhshan. Sept. 19, 1954. Elevation 1,204 m.**223282.** Col. No. 1279. 'Mash'. Khanabad, Kataghan. Oct. 3, 1954. Elevation 602 m.**223283.** *PHLEUM MONTANUM* C. Koch. Poaceae.**Timothy.**

Col. No. 1197. Trail to Yakatal, Badakhshan. Sept. 26, 1954. Elevation 1,807 m.

**223284 and 223285.** *PISUM SATIVUM* L. Fabaceae.**Garden pea.****223284.** Col. No. 1203. 'Moshong'. Yakatal, Badakhshan. Sept. 27, 1954. Elevation 1,807 m.

**223230 to 223304—Continued**

- 223285.** Col. No. 1262. 'Moshong'. Kataghan. Oct. 1, 1954. Elevation 2,710 m.
- 223286.** *POA BULBOSA* L. Poaceae. **Bulbous bluegrass.**  
Col. No. 1176. 'Alef'. Faizabad, Badakhshan. Sept. 25, 1954. Elevation 1,204 m. Early spring forage.
- 223287 and 223288.** *PROSOPIS STEPHANIANA* (Bieb.) Kunth Mimosaceae.
- 223287.** Col. No. 1069. Dry loam plain, Kataghan. Sept. 16, 1954. Elevation 602 m.
- 223288.** Col. No. 1291. Khanabad, Kataghan. Oct. 3, 1954. Elevation 602 m.
- 223289.** *RUMEX* sp. Polygonaceae.  
Col. No. 1366. 'Tarook'. Kunar, Eastern Province. Oct. 14, 1954. Elevation 1,386 m. Leaves cooked as an herb.
- 223290.** *SALVIA* sp. Menthaceae.  
Col. No. 1131. Khash, Jurm, Badakhshan. Sept. 21, 1954. Elevation 2,020 m. Used as green forage.
- 223291.** *SETARIA ITALICA* (L.) Beauv. Poaceae. **Foxtail millet.**  
Col. No. 1164. 'Gal'. Chakaran, Badakhshan. Sept. 23, 1954. Elevation 1,567 m.
- 223292.** *SETARIA* sp.  
Col. No. 1083. 'Qonaq' or 'Gal'. Kalifgan, Kataghan. Sept. 17, 1954. Elevation 1,591 m.
- 223293 and 223294.** *SETARIA LUTESCENS* (Weigel) Hubb.
- 223293.** Col. No. 1174. 'Alef'. Faizabad, Badakhshan. Sept. 25, 1954. Elevation 1,204 m. Short, perennial bunchgrass; used as summer forage.
- 223294.** Col. No. 1332. Jalalabad. Oct. 13, 1954. Elevation 693 m. Perennial bunchgrass.
- 223295.** *STIPA* sp.  
Col. No. 1198. Trail to Yakatal, Badakhshan. Sept. 26, 1954. Elevation 1,807 m.
- 223296.** *STIPA* sp.  
Col. No. 1294. Doabi, Kabul. Oct. 3, 1954. Elevation 2,020 m. Perennial bunchgrass.
- 223297.** *TRIFOLIUM REPENS* L. Fabaceae. **Whiteclover.**  
Col. No. 1245. 'Shaftal'. Kataghan. Sept. 30, 1954. Elevation 1,959 m.
- 223298 to 223301.** *VICIA ERVILIA* (L.) Willd. Fabaceae. **Bitter vetch.**
- 223298.** Col. No. 1095. 'Ghamo' or 'Shakel'. Market, Faizabad, Badakhshan. Sept. 19, 1954. Elevation 1,204 m. Boiled and ground into flour for bread; also used as cattle feed.
- 223299.** Col. No. 1204. 'Shakel'. Yakatal, Badakhshan. Sept. 27, 1954. Elevation 1,807 m.
- 223300.** Col. No. 1241. 'Ghamo'. Kataghan. Sept. 30, 1954. Elevation 1,959 m. Boiled and ground into flour; also used as cattle feed.
- 223301.** Col. No. 1262. 'Ghamo'. Kataghan. Oct. 1, 1954. Elevation 2,710 m.
- 223302 to 223304.** *VICIA FABA* L. **Broadbean.**
- 223302.** Col. No. 1097. 'Baqoli'. Market, Faizabad, Sept. 19, 1954. Elevation 1,204 m. Ground into flour.



**223230 to 223304—Continued****223302 to 223304—Continued**

**223303.** Col. No. 1205. 'Baqoli'. Yakatal, Badakhshan. Sept. 27, 1954. Elevation 1,807 m.

**223304.** Col. No. 1231. 'Baqoli'. Kataghan. Sept. 29, 1954. Elevation 1,567 m.

**223305 to 223316. LYCOPERSICON ESCULENTUM Mill. Solanaceae.****Tomato.**

From New York. Plants growing at the Regional Plant Introduction Station, Geneva. Numbered Jan. 14, 1955.

Localities given are original sources.

**223305.** 54-200. Ohio. 'Devons Surprise' × 'Marglobe'. Crack resistant.

**223306.** 54-218. Rhode Island. Late, flat, high color; crack resistant.

**223307.** 54-219. Rhode Island. 'Campbell Soup 222'. Crack resistant.

**223308.** 54-220. Rhode Island. 'Burgess Crack Proof'.

**223309.** 54-221. From O. H. Pearson. Flesh firm; pectin high, P723.

**223310.** 54-222. Rhode Island. P723 × 'Valiant' F<sub>5</sub>. Fruit firm.

**223311.** 54-223. Rhode Island. P723 × 'Valiant' F<sub>5</sub>. Fruit firm.

**223312.** 54-224. Rhode Island. CS222 × 'John Baer' F<sub>4</sub>.

**223313.** 54-227. Rhode Island. Potato-leaf segregate; fruit, skin yellow.

**223314.** 54-228. Rhode Island. Stems light green; potato leaf; flesh pink.

**223315.** 54-230. Rhode Island. Stems purple; fruit pink, skin transparent.

**223316.** 54-238. Rhode Island. Plant large; fruit firm, uniform ripening.

**223317 and 223318.**

From Mexico. Seeds presented by the Instituto Botanico el Estado, Tuxtla Gutierrez, Chiapas. Received Jan. 17, 1955.

**223317.** ZINNIA MULTIFLORA L. Asteraceae.

**Redstar zinnia.**

**223318.** ZINNIA sp.

**223319. DIOSCOREA sp. Dioscoreaceae.**

From Bolivia. Tubers presented by the University of Cochabamba, Cochabamba. Received Jan. 17, 1955. Collected at San Ignacio, Province of Velasco, Department of Santa Cruz.

**223320. MELICOPE AWADAN (Hatus.) Ohwi Rutaceae.**

From Japan. Seeds presented by T. Saito, through the United States National Museum, Washington, D.C. Received Jan. 11, 1954. Numbered Jan. 18, 1955.

**223321 to 223421.**

From Iran. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Corps Research Branch, Beltsville, Md. Received Jan. 19, 1955.

**223321.** AEGILOPS OVATA L. Poaceae.

**Goatgrass.**

Col. No. 1636. Road from Meshginshahr to Ahar, Azerbaijan. Nov. 11, 1954. Elevation 4,000 feet.

**223322.** AGROPYRON REPENS (L.) Beauv. Poaceae.

**Quackgrass.**

Col. No. 1559. Twenty miles east of Ardabil, road to Astara, Azerbaijan. Nov. 8, 1954. Elevation 4,700 feet.

**223321 to 223421—Continued**

**223323.** *AGROPYRON SQUARROSUM* (Roth) Link. **Wheatgrass.**

Col. No. 1641. Road from Meshginshahr to Ahar, Azerbaijan. Nov. 10, 1954. Elevation 4,300 feet.

**223324.** *HORDEUM MARINUM* Huds. Poaceae. **Barley.**

Col. No. 1678. Twenty miles northwest of Tabriz, road to Marand, Azerbaijan. Nov. 15, 1954. Elevation 4,500 feet.

**223325.** *AGROPYRON LOLIODES* (Kar. & Kir.) Roshev. **Wheatgrass.**

Col. No. 1179. Twenty-one miles northwest of Tabriz, road to Marand, Azerbaijan. Nov. 15, 1954. Elevation 4,500 feet.

**223326 and 223327.** *ALLIUM CEPA* L. Liliaceae. **Onion.**

**223326.** Col. No. 1490. 'Piazcheh'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet.

**223327.** Col. No. 1539. 'Piaz'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet. Large type; color red or white.

**223328.** *ALLIUM PORRUM* L. **Leek.**

Col. No. 1538. 'Tareh'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet. Small green onion.

**223329.** *AMMI COPTICUM* L. Apiaceae.

Col. No. 1483. 'Jaafari'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet.

**223330.** *BOTHRIODCHLOA ISCHAEMUM* (L.) Keng. Poaceae. **Turkestan bluestem.**

Col. No. 1684. Eight miles west of Marand, road to Khoy, Azerbaijan. Nov. 15, 1954. Elevation 4,000 feet. Perennial bunchgrass; well grazed.

**223331.** *ANETHUM GRAVEOLENS* L. Apiaceae. **Dill.**

Col. No. 1541. 'Shebet'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

**223332.** *APERA INTERRUPTA* (L.) Beauv. Poaceae.

Col. No. 1631. New road to Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 1,300 feet. Paniculate bunchgrass to 3 feet high.

**223333.** *APIUM GRAVEOLENS* L. Apiaceae. **Celery.**

Col. No. 1481. 'Karafs'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet.

**223334.** *FOENICULUM VULGARE* Mill. Apiaceae. **Fennel.**

Col. No. 1544. 'Karafs'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

**223335.** *ASTRAGALUS* sp. Fabaceae.

Col. No. 1511. Sixteen miles east of Tabriz, road to Sarab, Azerbaijan. Nov. 6, 1954. Elevation 5,900 feet.

**223336.** *AVENA ABYSSINICA* Hochst. Poaceae. **Oats.**

Col. No. 1624. Livestock Station, Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 800 feet.

**223337.** *AVENA* sp.

Col. No. 1520. Livestock Station, Sarab, Azerbaijan. Nov. 6, 1954. Elevation 5,600 feet.

**223338.** *BETA LOMATOGONA* Fisch. & Mey. Chenopodiaceae. **Beet.**

Col. No. 1522. Namin, Ardabil. Nov. 8, 1954. Elevation 5,000 feet.

**223339 and 223340.** *BETA VULGARIS* L. **Common Beet.**

**223339.** Col. No. 1487. 'Choghondari-Labou'. Market, Tabriz. Nov. 5, 1954.

**223340.** Col. No. 1737. Market, Rezaiyeh, Azerbaijan. Nov. 16, 1954. Elevation 4,500 feet.

**223321 to 223421—Continued**

**223341.** *CHENOPODIUM CAPITATUM* (L.) Aschers. Chenopodiaceae.

Col. No. 1464. 'Hassbeh Daneh'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet.

**223342 and 223343.** *BROMUS SQUARROSUS* L. Poaceae. **Brome.**

**223342.** Col. No. 1623. Livestock Station, Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 800 feet.

**223343.** Col. No. 1630. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 1,800 feet.

**223344.** *BROMUS DANTHONIAE* Trin. **Brome.**

Col. No. 1682. Eight miles west of Marand, road to Khoy, Azerbaijan. Nov. 15, 1954. Elevation 4,000 feet.

**223345.** *CANNABIS SATIVA* L. Moraceae. **Hemp.**

Col. No. 1548. 'Shah-Daneh'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

**223346 and 223347.** *CICER ARIETINUM* L. Fabaceae. **Chickpea.**

**223346.** Col. No. 1526. 'Nakhoud-Siah'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

**223347.** Col. No. 1527. 'Nakhood'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

**223348.** *CRYPIS ALOPECUROIDES* (Pill. & Mitterp.) Schrad. Poaceae.

Col. No. 1629. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 1,000 feet.

**223349 to 223351.** *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**

**223349.** Col. No. 1694. 'Arpat Khoun'. Market, Khoy, Azerbaijan. Nov. 15, 1954. Fruit elliptic, yellow; flesh sweet.

**223350.** Col. No. 1763. 'Mian Sabz'. Market, Kermanshah. Nov. 18, 1954. Elevation 4,500 feet. Fruit elliptic; flesh yellowish.

**223351.** Col. No. 1766. 'Karbozeh'. Market, Kermanshah. Nov. 18, 1954. Elevation 4,500 feet.

**223352.** *CUCURBITA PEPO* L. Cucurbitaceae. **Pumpkin.**

Col. No. 1473. 'Kadoo'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet. Fruit small, elongate.

**223353.** *CUCURBITA MAXIMA* Duchesne **Squash.**

Col. No. 1478. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet. Fruit pear-shaped, reddish, to 6 inches in diameter and 1 foot long.

**223354.** *CUCURBITA PEPO* L. **Pumpkin.**

Col. No. 1589. 'Kadoo'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 400 feet.

**223355.** *CUMINUM CYMINUM* L. Apiaceae. **Cumin.**

Col. No. 1485. 'Zirah'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet.

**223356.** *CYDONIA OBLONGA* Mill. Malaceae. **Quince.**

Col. No. 1834. Market, Tehran. Grown in Esfahan. Nov. 23, 1954. Elevation 4,500 feet. Fruit 4 inches in diameter; flavor good.

**223357.** *CYNODON DACTYLON* (L.) Pers. Poaceae. **Bermudagrass.**

Col. No. 1632. New road to Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 1,300 feet.

**223321 to 223421—Continued**

**223358 and 223359.** *DACTYLIS GLOMERATA* L. Poaceae. **Orchardgrass.**

**223358.** Col. No. 1560. Twenty miles east of Ardabil, road to Astara, Azerbaijan. Nov. 8, 1954. Elevation 4,700 feet.

**223359.** Col. No. 1683. Eight miles west of Marand, road to Khoy, Azerbaijan. Nov. 15, 1954. Elevation 4,000 feet.

**223360 to 223362.** *DAUCUS CAROTA* L. Apiaceae. **Carrot.**

**223360.** Col. No. 1482. 'Havij'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet.

**223361.** Col. No. 1540. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

**223362.** Col. No. 1692. 'Haui'. Market, Khoy, Azerbaijan. Nov. 15, 1954. Roots large, greenish-yellow.

**223363.** *DELPHINIUM* sp. Ranunculaceae.

Col. No. 1583. Thirty-four miles north of Ardabil, road to Moghan, Azerbaijan. Nov. 9, 1954. Elevation 3,700 feet. On dry roadside; flowers blue.

**223364.** *DESCHAMPSIA CAESPITOSA* L. Poaceae. **Tufted hair-grass.**

Col. No. 1564. Twenty miles east of Ardabil, road to Astara, Azerbaijan. Nov. 8, 1954. Elevation 4,700 feet.

**223365.** *ECHINOCHLOA CRUSGALLI* (L.) Beauv. Poaceae. **Barnyard grass.**

Col. No. 1586. Eight miles north of Fork on the new road to Moghan, Azerbaijan. Nov. 9, 1954. Elevation 3,300 feet.

**223366.** *ELYMUS CRINITUS* Schreb. Poaceae. **Wildrye.**

Col. No. 1635. Road from Meshginshahr to Ahar, Azerbaijan. Nov. 11, 1954. Elevation 4,000 feet.

**223367.** *ERAGROSTIS POAEOIDES* Beauv. Poaceae. **Lovegrass.**

Col. No. 1574. Astara, Azerbaijan. Nov. 8, 1954. Small pasture grass.

**223368.** *ERAGROSTIS PILOSA* (L.) Beauv. **Lovegrass.**

Col. No. 1625. Livestock Station, Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 800 feet. Perennial bunchgrass.

**223369.** *FESTUCA* sp. Poaceae.

Col. No. 1510. Sixteen miles east of Tabriz, road to Sarab, Azerbaijan. Nov. 6, 1954. Elevation 5,900 feet. Perennial grass.

**223370.** *HELIANTHUS ANNUUS* L. Asteraceae. **Common sunflower.**

Col. No. 1551. 'Aftab'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

**223371.** *ELYMUS FRAGILIS* (Boiss.) Griseb. Poaceae. **Wildrye.**

Col. No. 1627. Livestock Station, Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 800 feet.

**223372.** *HORDEUM LEPORINUM* Link Poaceae. **Barley.**

Col. No. 1637. Road from Meshginshahr to Ahar, Azerbaijan. Nov. 11, 1954. Elevation 4,000 feet. Wild, to 4 feet high.

**223373.** *HORDEUM MURINUM* L. **Barley.**

Col. No. 1626. Livestock Station, Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 800 feet.

**223374.** *HORDEUM* sp.

Col. No. 1508. Sixteen miles east of Tabriz, road to Sarab, Azerbaijan. Nov. 6, 1954. Elevation 5,900 feet.



**223321 to 223421—Continued****223375. HORDEUM sp.**

Col. No. 1517. Livestock Station, Sarab, Azerbaijan. Nov. 6, 1954. Elevation 5,600 feet.

**223376 and 223377. HORDEUM VULGARE L. Barley.**

**223376.** Col. No. 1588. Moghan Steppes, Azerbaijan, Nov. 10, 1954. Elevation 400 feet.

**223377.** Col. No. 1677. 'Afshar Jow'. Tabriz, Azerbaijan. Nov. 13, 1954. Elevation 4,000 feet.

**223378. KOELERIA sp. Poaceae.**

Col. No. 1577. Twenty-four miles north of Ardabil, road to Moghan, Azerbaijan. Nov. 9, 1954. Elevation 4,500 feet. Perennial grass on dry rocky slope.

**223379 and 223380. LACTUCA SATIVA L. Cichoriaceae. Garden lettuce.**

**223379.** Col. No. 1550. 'Kahou'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

**223380.** Col. No. 1760. 'Kahou'. Market, Kermanshah. Nov. 18, 1954. Elevation 4,500 feet.

**223381 to 223383. LENS CULINARIS Medic. Fabaceae. Lentil.**

**223381.** Col. No. 1532. 'Adas'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

**223382.** Col. No. 1553. 'Adas Dorosbt'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

**223383.** Col. No. 1693. 'Adas'. Market, Khoy, Azerbaijan. Nov. 15, 1954.

**223384. LINUM USITATISSIMUM L. Linaceae. Flax.**

Col. No. 1689. 'Razrak'. Market, Khoy, Azerbaijan. Nov. 15, 1954. Seeds used for oil.

**223385. LOLIUM PERENNE L. Poaceae. Ryegrass.**

Col. No. 1628. Livestock Station, Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 800 feet.

**223386 to 223388. MEDICAGO SATIVA L. Fabaceae. Alfalfa.**

**223386.** Col. No. 1506. 'Yonjeh'. Sixteen miles east of Tabriz, road to Sarab, Azerbaijan. Nov. 6, 1954. Elevation 5,900 feet.

**223387.** Col. No. 1529. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

**223388.** Col. No. 1634. Road from Meshginshahr to Ahar, Azerbaijan. Nov. 11, 1954. Elevation 4,600 feet.

**223389. ONOBRYCHIS VICIAEFOLIA Scop. Fabaceae. Sainfoin.**

Col. No. 1530. 'Esperess'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet. Forage legume, planted every four years.

**223390. ORNITHOPUS sp. Fabaceae.**

Col. No. 1638. Road from Meshginshahr to Ahar, Azerbaijan. Nov. 10, 1954. Elevation 4,000 feet.

**223391. PANICUM MILIACEUM L. Poaceae. Proso millet.**

Col. No. 1554. 'Arzan'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

**223392 to 223394. PAPAVER SOMNIFERUM L. Papaveraceae. Opium poppy.**

**223392.** Col. No. 1486. 'Khash-Khash'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet.

**223393.** Col. No. 1739. 'Khash-Khash'. Market, Rezaiyeh, Azerbaijan. Nov. 16, 1954. Elevation 4,500 feet.

**223321 to 223421—Continued****223392 to 223394—Continued**

**223394.** Col. No. 1757. 'Khash-Khash'. Market, Kermanshah. Nov. 18, 1954. Elevation 4,500 feet.

**223395.** *PETROSELINUM CRISPUM* (Mill.) Nym. Apiaceae. Parsley.

Col. No. 1543. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

**223396 to 223398.** *PHALARIS CANARIENSIS* L. Poaceae. Canarygrass.

**223396.** Col. No. 1493. 'Katan'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet.

**223397.** Col. No. 1553. 'Daneh-Ghanari'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

**223398.** Col. No. 1761. 'Bazrak'. Market, Kermanshah. Nov. 18, 1954. Elevation 4,500 feet.

**223399 and 223400.** *PHASEOLUS VULGARIS* L. Fabaceae. Common bean.

**223399.** Col. No. 1502. 'Lobia'. Sarab, Azerbaijan. Nov. 6, 1954. Elevation 5,600 feet.

**223400.** Col. No. 1525. 'Lobia'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

**223401.** *PHLEUM IRANICUM* Bornm. & Gaub. Poaceae. Timothy.

Col. No. 1576. Twenty-four miles north of Ardabil, road to Moghan, Azerbaijan. Nov. 9, 1954. Elevation 4,500 feet. Small grass on dry rocky slope.

**223402.** *POA BULBOSA* L. Poaceae. Bulbous bluegrass.

Col. No. 1680. Twenty-one miles northwest of Tabriz, road to Marand, Azerbaijan. Nov. 15, 1954. Elevation 4,500 feet.

**223403.** *POA* sp.

Col. No. 1788. Twenty-four miles west of Hamedan, road to Kermanshah. Nov. 18, 1954. Elevation 7,500 feet. Fine-leaved perennial.

**223404.** *POLYPOGON MONSPELIENSIS* (L.) Desf. Poaceae.

Col. No. 1743. Rezaiyeh Shore, 26 miles south of Rezaiyeh, Azerbaijan. Nov. 16, 1954. Elevation 4,500 feet. Salt tolerant.

**223405.** *PUCCINELLIA* sp. Poaceae.

Col. No. 1681. Twenty-one miles northwest of Tabriz, road to Marand, Azerbaijan. Nov. 15, 1954. Elevation 4,500 feet. Perennial bunchgrass; well grazed.

**223406 and 223407.** *RAPHANUS SATIVUS* L. Brassicaceae. Radish.

**223406.** Col. No. 1495. 'Torob-i-Sefid'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet. Roots white.

**223407.** Col. No. 1691. 'Torob-Sefid'. Market, Khoy, Azerbaijan. Nov. 15, 1954. Roots large, white.

**223408 and 223409.** *RICINUS COMMUNIS* L. Euphorbiaceae. Castorbean.

**223408.** Col. No. 1547. 'Karchak'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

**223409.** Col. No. 1762. 'Karchak'. Market, Kermanshah. Nov. 18, 1954. Elevation 4,500 feet.

**223410.** *SECALE CEREALE* L. Poaceae. Rye.

Col. No. 1516. Livestock Station, Sarab, Azerbaijan. Nov. 6, 1954. Elevation 5,600 feet.

**223411 to 223413.** *SESAMUM INDICUM* L. Pedaliaceae. Sesame.

**223411.** Col. No. 1545. 'Konjet'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

**223321 to 223421—Continued****223411 to 223413—Continued**

**223412.** Col. No. 1688. 'Konjet'. Market, Khoy, Azerbaijan. Nov. 15, 1954. Elevation 4,000 feet.

**223413.** Col. No. 1765. 'Konjet'. Market, Kermanshah. Nov. 18, 1954. Elevation 4,500 feet.

**223414.** *SORGHUM VULGARE* Pers. Poaceae.

Col. No. 1584. Thirty-six miles north of Ardabil, road to Moghan, Azerbaijan. Nov. 9, 1954. Elevation 3,500 feet.

**223415.** *TRIFOLIUM HYBRIDUM* L. Fabaceae. **Alsike clover.**

Col. No. 1504. 'Shabdar'. Road from Tabriz to Sarab, 16 miles east of Tabriz, Azerbaijan.

**223416.** *TRIFOLIUM PRATENSE* L. **Red clover.**

Col. No. 1503. 'Shabdar'. Sixteen miles east of Tabriz, road to Sarab, Azerbaijan. Nov. 6, 1954. Elevation 5,900 feet. Flowers reddish white.

**223417.** *VICIA ERVILIA* (L.) Willd. Fabaceae. **Bitter vetch.**

Col. No. 1531. 'Gavdaneh'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet. Seeds fed to cattle.

**223418.** *VICIA FABA* L. **Broadbean.**

Col. No. 1528. 'Baghlayeh Maamooli'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 500 feet.

**223419.** *VICIA SATIVA* L. **Common vetch.**

Col. No. 1536. 'Gharadaneh'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet. Seeds used as stock feed.

**223420.** *VIGNA SINENSIS* (Torner) Savi. Fabaceae. **Common cowpea.**

Col. No. 1524. 'Lobia'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.

**223421.** (Undetermined.)

Col. No. 1612. 'Marzeh'. Moghan Steppes, Azerbaijan. Nov. 10, 1954. Elevation 400 feet. Leaves used as greens.

**223422.** *LABURNUM ALPINUM* (Mill.) Berchtold Fabaceae. **Scotch laburnum.**

From Sweden. Seeds presented by the Botanic Garden, Stockholm. Received Jan. 19, 1955.

**223423.** *MELILOTUS OFFICINALIS* (L.) Lam. Fabaceae. **Yellow sweetclover.**

From Canada. Seeds presented by the Experimental Farm, Brandon, Manitoba. Received Jan. 20, 1955.

'Erector'.

**223424 to 223430.**

From Yugoslavia. Seeds presented by the Institute for Plant Breeding and Plant Introduction, Zemun. Received Jan. 20, 1955.

**223424 and 223425.** *HORDEUM VULGARE* L. Poaceae. **Barley.**

**223424.** 'Vindicat'.

**223425.** 'Zemun'.

**223426 to 223430.** *TRITICUM AESTIVUM* L. Poaceae. **Common wheat.**

**223426.** 'Kruzevoe'.

**223429.** 'Puza 12'.

**223427.** 'Kuron'

**223430.** 'Puza 80-5'.

**223428.** 'Punjab 21'.

**223431 to 223474.**

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Feb. 4, 1955.

**223431.** *ALLIUM CEPA* L. Liliaceae.

**Onion.**

Col. No. 1184. 'Piaz'. Faizabad, Badakhshan. Sept. 25, 1954. Elevation 4,000 feet.

**223432.** *AVENA SATIVA* L. Poaceae.

**Common oats.**

Col. No. 1124. 'Lass'. Khash, Jurm, Badakhshan. Sept. 21, 1954. Elevation 6,700 feet.

**223433.** *CICER ARIETINUM* L. Fabaceae.

**Chickpea.**

Col. No. 1094. 'Nakhod'. Market, Faizabad, Badakhshan. Sept. 19, 1954.

**223434 to 223436.** *CUCUMIS MELO* L. Cucurbitaceae.

**Muskmelon.**

**223434.** Col. No. 1086. 'Kharbozeh'. Kisham, Badakhshan, Sept. 18, 1954. Elevation 3,300 feet. Fruit oval, yellow; flesh yellowish white; flavor sweet.

**223435.** Col. No. 1100. 'Kharbozeh'. Market, Faizabad, Badakhshan. Sept. 19, 1954. Elevation 4,000 feet. Fruit oval, green; flesh whitish yellow, sweet.

**223436.** Col. No. 1155. Jurm, Badakhshan. Sept. 22, 1954. Elevation 4,800 feet. Fruit oval, green; flesh green.

**223437.** *CUCUMIS SATIVUS* L.

**Cucumber.**

Col. No. 1099. 'Badreng' or 'Khair'. Market, Faizabad, Badakhshan. Sept. 19, 1954. Elevation 400 feet.

**223438.** *CUCURBITA MAXIMA* Duchesne Cucurbitaceae.

**Squash.**

Col. No. 1153. 'Kadoo'. Jurm, Badakhshan. Sept. 22, 1954. Elevation 4,800 feet.

**223439.** *ERIANTHUS* sp. Poaceae.

Col. No. 1339. 'Monj'. Laghman, Eastern Province. Oct. 13, 1954. Elevation 3,000 feet. Large perennial bunchgrass growing to a height of 5 feet.

**223440.** *FORTUYNIA* sp. Brassicaceae.

Col. No. 163. Near Dilaram, Girishk, May 25, 1954. Elevation 2,800 feet. Desert plant; stems green; leaves gray green, semisucculent; sometimes grazed.

**223441.** *GOSSYPIUM* sp. Malvaceae.

Col. No. 1269. Taliq-An, Kataghan. Oct. 2, 1954. Elevation 3,000 feet. From the U.S.S.R.

**223442.** *GOSSYPIUM* sp.

Col. No. 1278. Khanabad, Kataghan. Oct. 3, 1954. Elevation 2,000 feet. From the U.S.S.R.

**223443.** *GOSSYPIUM* sp.

Col. No. 1319. 'Ponbeh'. Jalalabad. Oct. 12, 1954. Elevation 2,300 feet.

**223444.** *HORDEUM* sp. Poaceae.

Col. No. 1074. Kalifgan, Kataghan. Sept. 17, 1954. Elevation 4,500 feet. Perennial bunch grass, well grazed.

**223445 to 223450.** *HORDEUM VULGARE* L.

**Barley.**

**223445.** Col. No. 1077. 'Jow'. Kalifgan, Kataghan. Sept. 17, 1954. Elevation 4,500 feet. Non-irrigated type, planted in winter.

**223446.** Col. No. 1090. 'Jow'. Market, Faizabad, Badakhshan. Sept. 19, 1954. Elevation 4,000 feet.

**223447.** Col. No. 1106. 'Jow'. Barak, Badakhshan. Sept. 20, 1954. Elevation 5,000 feet.



**223341 to 223474—Continued****223445 to 223450—Continued**

**223448.** Col. No. 1135. 'Jow'. Jurm, Badakhshan. Sept. 22, 1954. Elevation 4,800 feet.

**223449.** Col. No. 1138. 'Jow'. Jurm, Badakhshan. Sept. 22, 1954. Elevation 4,800 feet.

**223450.** Col. No. 1216. 'Jow-i-Lalmi'. Yakatal, Badakhshan. Sept. 27, 1954. Elevation 6,000 feet. Dryland type.

**223451.** *LENS CULINARIS* Medic. Fabaceae. **Lentil.**

Col. No. 1208. 'Adas'. Yakatal, Badakhshan. Sept. 26, 1954. Elevation 6,000 feet.

**223452 and 223453.** *LINUM USITATISSIMUM* L. Linaceae. **Flax.**

**223452.** Col. No. 1159. 'Zegher'. Chakaran, Badakhshan. Sept. 23, 1954. Elevation 5,200 feet.

**223453.** Col. No. 1209. 'Zegher'. Yakatal, Badakhshan. Sept. 27, 1954. Elevation 6,000 feet.

**223454.** *MALUS* sp. Malaceae.

Col. No. 1212. 'Saib'. Takatal, Badakhshan. Sept. 27, 1954. Elevation 6,500 feet. Wild type; tree to 30 feet high. Fruit to 2 inches in diameter; flavor good.

**223455.** *MALUS* sp.

Col. No. 1213. 'Saib'. Yakatal, Badakhshan. Sept. 27, 1954. Elevation 6,500 feet. Wild type; tree to 25 feet high; fruits to 2 inches in diameter; flavor good.

**223456 and 223457.** *ORYZA SATIVA* L. Poaceae. **Rice.**

**223456.** Col. No. 1071. 'Berenj-i-Mahin'. Khanabad, Kataghan. Sept. 17, 1954.

**223457.** Col. No. 1150. 'Bereng-i-Luk'. Jurm, Badakhshan. Sept. 22, 1954. Elevation 4,800 feet.

**223458 and 223459.** *PAPAVR SOMNIFERUM* L. Papaveraceae. **Opium poppy.**

**223458.** Col. No. 1115. 'Khash-Khash'. Jurm, Badakhshan. Sept. 21, 1954. Elevation 6,700 feet. This area produces the most opium per acre in Afghanistan.

**223459.** Col. No. 1154. 'Khash-Khash'. Jurm, Badakhshan. Sept. 22, 1954. Elevation 4,800 feet.

**223460.** *PRUNUS AMYGDALUS* Batsch Amygdalaceae. **Almond.**

Col. No. 1168. Juniper Slope, Barak, Badakhshan. Sept. 23, 1954. Elevation 6,200 feet.

**223461.** *PRUNUS AVIUM* L. **Sweet cherry.**

Col. No. 1139. 'Aloubaloo'. Jurm, Badakhshan. Sept. 22, 1954. Elevation 4,800 feet. Fruits sour, black; dried for winter use.

**223462.** *PRUNUS PERSICA* (L.) Batsch **Peach.**

Col. No. 1142. 'Shaftaloo'. Jurm, Badakhshan. Sept. 22, 1954. Elevation 4,800 feet. Fruit large; flavor good.

**223463.** *RHEUM RHAPONTICUM* L. Polygonaceae. **Common rhubarb.**

Col. No. 1056. Above the Helmand River, Hazarjat, Kabul. Sept. 1, 1954. Elevation 8,000 feet.

**223464.** *SACCHARUM* sp. Poaceae.

Col. No. 1220. Fifteen miles from Faizabad, Badakhshan. Sept. 28, 1954. Elevation 3,700 feet.

**223341 to 223474—Continued****223465 to 223473. TRITICUM AESTIVUM L. Poaceae. Common wheat.****223465.** Col. No. 1078. 'Gandom'. Kalifgan, Kataghan. Sept. 17, 1954. Elevation 4,500 feet. Nonirrigated winter type.**223466.** Col. No. 1091. 'Gandom-i-Safadek'. Market, Faizabad, Badakhshan. Sept. 19, 1954. Elevation 4,000 feet. Nonirrigated, spring type.**223467.** Col. No. 1092. 'Gandom-i-Sorkheh'. Market, Faizabad, Badakhshan. Sept. 19, 1954. Red grain.**223468.** Col. No. 1107. 'Gandom-i-Sorkheh' Barak, Badakhshan. Sept. 20, 1954. Elevation 5,000 feet. Red type; nonirrigated.**223469.** Col. No. 1119. Gandom-i-Lami. Khash, Jurm, Badakhshan. Sept. 21, 1954. Elevation 6,700 feet. Dryland type.**223470.** Col. No. 1136. 'Gandom'. Jurm, Badakhshan. Sept. 22, 1954. Elevation 4,800 feet. Nonirrigated, spring type.**223471.** Col. No. 1163. 'Gandom-i-Abi'. Chakaran, Badakhshan. Sept. 23, 1954. Elevation 5,200 feet. Irrigated fall type.**223472.** Col. No. 1215. 'Gandom'. Yakatal, Badakhshan. Sept. 27, 1954. Elevation 6,000 feet. Dryland type.**223473.** Col. No. 1227. 'Gandom-i-Lallmi'. Kishma, Badakhshan. Sept. 28, 1954. Elevation 3,000 feet. Nonirrigated spring type.**223474.** (Undetermined.) Menthaceae.

Col. No. 1252. Kataghan. Sept. 30, 1954. Elevation 7,000 feet. Plants to 3 feet high; well browsed.

**223475 to 223479. PRUNUS AMYGDALUS Batsch Amygdalaceae.****Almond.**

From Greece. Budwood presented by the University of Thessaloniki, Thessaloniki. Received Jan. 21, 1955.

**223475.** 'Symmetrike'. Tree strong, symmetrical; soft-shell variety, 51 percent kernel content.**223476.** 'Retsos'. Soft-shell variety with 48 percent kernel content.**223477.** 'Trusito'. Tree strong; good habit; hard-shell variety of Italian origin with 22 percent kernel content.**223478.** 'Princesse'. Tree medium strong, pendulous; semisoft shell variety of Italian origin with 34.8 percent kernel content.**223479.** 'Dolce a Guscio Tenero'. Tree symmetrical; soft-shell variety of Italian origin with 54 percent of kernel content; susceptible to Monilia.**223480 and 223481. MELILOTUS ALBA Desr. Fabaceae.****White sweetclover.**

From Canada. Seeds presented by the Dominion Forage Corps Laboratory, University of Saskatchewan, Saskatoon. Received Jan. 24, 1955.

**223480.** 'Alpha'.**223481.** 'Arctic'.**223482 to 223489. ORYZA SATIVA L. Poaceae.****Rice.**

From Argentina. Seeds presented by the Estacion Experimental de Arroz, Eva Peron. Received Jan. 24, 1955.

**223482.** 'Chacarero' F.A.**223486.** 'Precoz' 2 F.A.**223483.** 'Japones Gigante'.**223487.** 'Victoria' F.A.**223484.** 'Japonesito' de 3 messes. Sel. F.A.**223488.** 'Victoria Tardio' F.A. Sel. 2.**223485.** 'Precosur' 1 F.A.**223489.** 'Yamani'.

**223490. ORYZA SATIVA L. Poaceae.****Rice.**

From Guatemala. Seeds presented by E. C. Tullis, United States Department of Defense. Received Jan. 24, 1955.

**223491 to 223495. ORYZA SATIVA L. Poaceae****Rice.**

From India. Seeds presented by the Central Rice Research Institute, Orissa. Received Jan. 24, 1955.

223491. 'Eichengeri' G. S. No. 435.

223494. C. 10. G. S. No. 11.

223492. 'Latifolia' G. S. No. 436.

223495. 1460. G. S. No. 399.

223493. 'Officinalis' G. S. No. 439.

**223496 to 223550.**

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Jan. 24, 1955.

Collected in Eastern Province, September and October, 1954.

**223496. AELUROPUS LITTORALIS (Gouan) Parl. Poaceae.**

Col. No. 1087. Kokcha River valley, near Kishma, Badakhshan. Elevation 2,700 feet. Dryland grass on sandstone slope.

**223497. AGROPYRON sp. Poaceae.**

Col. No. 1201. Trail to Yakatal, Badakhshan. Elevation 6,500 feet.

**223498. ALLIUM CEPA L. Liliaceae.****Onion.**

Col. No. 1296. 'Piaz'. Jalalabad. Elevation 2,300 feet.

**223499 to 223501. BRASSICA RAPA L. Brassicaceae.****Turnip.**

223499. Col. No. 1297. 'Shalghem'. Jalalabad. Elevation 2,300 feet.

223500. Col. No. 1368. 'Shalghem-i-Zard'. Kunar.

223501. Col. No. 1376. 'Shalghem'. Kunar. Elevation 3,000 feet.

**223502. BRASSICA sp.**

Col. No. 1298. 'Sharsham'. Jalalabad. Elevation 2,300 feet. Oilseed.

**223503. BRASSICA sp.**

Col. No. 1308. 'Owri'. Jalalabad. Elevation 2,300 feet.

**223504. DAUCUS CAROTA L. Apiaceae.****Carrot.**

Col. No. 1299. 'Zerdek'. Jalalabad. Elevation 2,300 feet.

**223505. DIOSPYROS sp. Diospyraceae.**

Col. No. 1361. 'Ahlook'. Kunar. Elevation 3,000 feet. Fruit yellow, to 1 inch in diameter.

**223506 and 223507. HIBISCUS CANNABINUS L. Malvaceae.****Kenaf.**

223506. Col. No. 1334. 'Sund'. Jalalabad. Elevation 2,300 feet.

223507. Col. No. 1357. 'Sund'. Kunar. Elevation 3,000 feet.

**223508 to 223510. HORDEUM VULGARE L. Poaceae.****Barley.**

223508. Col. No. 1371. 'Jow'. Kunar. Elevation 3,000 feet. Fall grain.

223509. Col. No. 1318. 'Jow'. Jalalabad. Elevation 2,300 feet.

223510. Col. No. 1350. 'Jow'. Alingar. Elevation 3,500 feet.

**223511. JUGLANS REGIA L. Juglandaceae.****Persian walnut.**

Col. No. 1356. Alingar. Elevation 3,500 feet. Wild type from hills around Alingar.

**223512 to 223518. ORYZA SATIVA L. Poaceae.****Rice.**

223512. Col. No. 1323. 'Shali-i-Mahin'. Jalalabad. Elevation 2,300 feet.

## 223496 to 223550—Continued

## 223512 to 223518—Continued

223513. Col. No. 1340. 'Shali-i-Luk'. Laghman.
223514. Col. No. 1341. 'Shali-i-Mahin'. Laghman. Elevation 2,500 feet.
223515. Col. No. 1351. 'Shal-i-Luk'. Alingar. Elevation 3,500 feet.
223516. Col. No. 1352. 'Shali-i-Mahin'. Alingar. Elevation 3,500 feet.
223517. Col. No. 1372. 'Shali-i-Mahin'. Kunar. Elevation 3,000 feet.
223518. Col. No. 1373. 'Shali-i-Luk'. Kunar. Elevation 3,000 feet.
223519. *LINUM USITATISSIMUM* L. Linaceae. Flax.  
Col. No. 1304. 'Zegher'. Jalalabad. Elevation 2,300 feet. Furnishes an edible oil.
223520. *PAPAVER SOMNIFERUM* L. Papaveraceae. Opium poppy.  
Col. No. 1300. 'Khash-Khash'. Jalalabad. Elevation 2,300 feet.
223521. *PHASEOLUS ACONITIFOLIUS* Jacq. Fabaceae. Moth bean.  
Col. No. 1344. 'Mote'. Laghman. Elevation 2,600 feet. Used as green and dried forage.
- 223522 and 223523. *PHASEOLUS AUREUS* Roxb. Mung bean.  
223522. Col. No. 1311. 'Mash'. Jalalabad. Elevation 2,300 feet.  
223523. Col. No. 1353. 'Mash'. Alingar.
223524. *PHASEOLUS MUNGO* L. Urd.  
Col. No. 1316. 'Mai'. Jalalabad. Elevation 2,300 feet.
223525. *PHASEOLUS VULGARIS* L. Common bean.  
Col. No. 1317. 'Lobia-i-Sorkh'. Jalalabad. Elevation 2,300 feet. Red.
- 223526 and 223527. *PISUM SATIVUM* L. Fabaceae. Garden pea.  
223526. Col. No. 1355. 'Moshong'. Alingar. Elevation 3,500 feet.  
223527. Col. No. 1369. 'Lobia'. Kunar.
223528. *PUNICA GRANATUM* L. Punicaceae. Pomegranate.  
Col. No. 1384. 'Anar'. Market, Kabul.
223529. *QUERCUS* sp. Fabaceae.  
Col. No. 1382. 'Baloot'. Market, Kabul. Grown near Gardez.
- 223530 and 223531. *RAPHANUS SATIVUS* L. Brassicaceae. Radish.  
223530. Col. No. 1309. 'Moli'. Jalalabad. Elevation 2,300 feet.  
223531. Col. No. 1374. 'Moli'. Kunar. Elevation 3,000 feet.
223532. *SESAMUM INDICUM* L. Pedaliaceae. Sesame.  
Col. No. 1312. 'Konjed'. Jalalabad. Elevation 2,300 feet. Oilseed.
223533. *SETARIA ITALICA* (L.) Beauv. Poaceae. Foxtail millet.  
Col. No. 1305. 'Gal'. Jalalabad. Elevation 2,300 feet.
223534. *SOLANUM MELONGENA* L. Solanaceae. Eggplant.  
Col. No. 1302. 'Badinjan-i-Siah'. Jalalabad. Elevation 2,300 feet.
223535. *SORGHUM VULGARE* Pers. Poaceae.  
Col. No. 1335. 'Bajerah'. Jalalabad. Elevation 2,300 feet.
223536. *SPINACEA OLERACEA* L. Chenopodiaceae. Common spinach.  
Col. No. 1313. 'Palek'. Jalalabad. Elevation 2,300 feet.
- 223537 to 223539. *TRIFOLIUM RESUPINATUM* L. Fabaceae. Persian clover.



**223496 to 223550—Continued****223537 to 223539—Continued**

**223537.** Col. No. 1310. 'Shaftal'. Jalalabad. Elevation 2,300 feet.

**223538.** Col. No. 1346. 'Shaftal'. Alingar. Elevation 3,500 feet.

**223539.** Col. No. 1370. 'Shaftal'. Kunar. Elevation 3,000 feet.

**223540 to 223546. TRITICUM AESTIVUM L. Poaceae.****Common wheat.**

**223540.** Col. No. 1322. 'Gandom-i-Lalmi'. Jalalabad. Elevation 2,300 feet. Nonirrigated type.

**223541.** Col. No. 1325. 'Gandom-i-Abi'. Jalalabad. Elevation 2,300 feet. Irrigated type.

**223542.** Col. No. 1348. 'Gandom-i-Sorkh'. Alingar. Elevation 3,500 feet. Irrigated red type.

**223543.** Col. No. 1349. 'Gandom-i-Safade'. Alingar. Elevation 3,500 feet. Irrigated white type.

**223544.** Col. No. 1377. 'Gandom-i-Lalmi'. Kunar. Elevation 3,000 feet. Nonirrigated type.

**223545.** Col. No. 1378. 'Gandom-i-Morcheh'. Kunar. Winter type. Elevation 3,000 feet.

**223546.** Col. No. 1379. 'Gandom-i-Lalmi'. Kunar. Elevation 3,000 feet. Nonirrigated type; from the Pakistan-Afghanistan border.

**223547. VICIA ERVILIA (L.) Willd. Fabaceae.****Bitter vetch.**

Col. No. 1354. 'Shakhel'. Alingar. Elevation 3,500 feet.

**223548. VIGNA SINENSIS (Torner) Savi Fabaceae.****Common cowpea.**

Col. No. 1315. 'Lobia-i-Khord'. Jalalabad. Elevation 2,300 feet.

**223549 and 223550. ZEA MAYS L. Poaceae.****Corn.**

**223549.** Col. No. 1347. 'Jawari'. Alingar. Elevation 3,500 feet. White grain.

**223550.** Col. No. 1375. 'Jawari'. Kunar. Elevation 3,000 feet.

**223551 and 223552. CAPSICUM FRUTESCENS L. Solanaceae.****Redpepper.**

From Argentina. Seeds presented by the Universidad Nacional de Cuyo Espepo, Mendoza. Received Jan. 24, 1955.

**223551.** 'Nora de Murcia'.

**223552.** 'Pimentero'.

**223553. ONOBRYCHIS VICIAEFOLIA Scop. Fabaceae.****Sainfoin.**

From Turkey. Seeds presented by the Director General of the Turkish State Seed Increase Farms, Ankara.

Received Jan. 26, 1955.

**223554 to 223562. ORYZA SATIVA L. Poaceae****Rice.**

From the Philippines. Seeds presented by the University of the Philippines, College of Agriculture, Laguna. Received Jan. 26, 1955.

**223554.** 'Azucena'.

**223559.** 'Mangarez'.

**223555.** 'Binicol'.

**223560.** 'Milfor 6'.

**223556.** 'Binirhen'.

**223561.** 'Moratuto'.

**223557.** 'Dourado Aquilha'.

**223562.** 'Pinulot'.

**223558.** 'Kinandang Nagpulot'.

**223563 to 223566. MUSA TEXTILIS Nee. Musaceae. Abaca banana.**

From Indonesia. Crowns presented by the Handelsvereening "Amsterdam," Medan. Received Jan. 27, 1955.

223563. 'Jholo'. 223565. 'Jholo Itam'. (black)

223564. 'Jholo Hybrides'. 223566. 'Jholo merah'. (red)

**223567. VITIS VINIFERA L. Vitaceae. European grape.**

From France. Cuttings presented by the Section de Selection et de Controle des Bois et Plantes de Vigne. St. Jeannet, Alpes Maritimes.

'Saint Jeannet-Tardif'.

**223568 to 223575.**

From Peru. Seeds presented by the United States Operations Mission to Peru, Lima. Received Jan. 3, 1955.

223568. *LOLIUM MULTIFLORUM* Lam. Poaceae. Ryegrass.

From Cajamarca. Elevation 7,000 feet.

223569 to 223575. *ORYZA SATIVA* L. Poaceae. Rice.

From Lambayeque Experiment Station, Lambayeque.

223569. 'Lambayeque' No. 1. 223573. 'Minabir' No. 3.

223570. 'Lambayeque' No. 2. 223574. 'Minabir' No. 4.

223571. 'Minabir' No. 1. 223575. 'Minagra' No. 1.

223572. 'Minabir' No. 2.

**223576 to 223578. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.**

From Germany. Seeds presented by the Research Institute, Gatersleben, Russian Zone. Received Jan. 31, 1955.

223576. 'K193 D/52'.

223577. 'K193 F/52'.

223578. 'K193 H/52'.

**223579 to 223581.**

From Germany. Seeds presented by the Max-Planck Institute, Voldagsen. Received Jan. 31, 1955.

223579. *ANTIRRHINUM* sp. Scrophulariaceae.

223580. *ANTIRRHINUM* sp.

223581. *ANTIRRHINUM SICULUM* Mill.

'Ernte S-45'.

**223582 to 223588.**

From Great Britain. Cuttings presented by the Royal Botanic Gardens, Kew, England. Received Jan. 31, 1955.

223582. *RUBUS FLOSCULOSUS* Focke Rosaceae.

223583. *RUBUS PEDUNCULOSUS* Don

223584. *RUBUS GIRALDIANUS* Focke

223585. *RUBUS INNOMINATUS* var. *KUNTZEANUS* (Focke) Bailey

223586. *RUBUS COREANUS* Miquel. Korean raspberry.

223587. *RUBUS LASIOSTYLUS* Focke Woolly raspberry.

223588. *RUBUS THIBETANUS* Franch.

**223589 and 223590.**

From the British West Indies. Seeds presented by the Plant Protection Officer, Department of Agriculture, Kingston, Jamaica. Received Jan. 31, 1955.

**223589.** *DESMODIUM AXILLARE* (Sw.) DC. Fabaceae. **Tickclover.**

**223590.** *DESMODIUM SALICIFOLIUM* (Poir. ex Lam.) DC. **Tickclover.**

**223591 to 223593.**

From Brazil. Seeds presented by the Horto Florestal de Paraopeba, Belo Horizonte, Minas Gerais. Received Feb. 1, 1955.

**223591.** *PIPTADENIA MACROCARPA* Benth. Mimosaceae.

**223592.** *PIPTADENIA PANICULATA* Benth.

**223593.** *PIPTADENIA PEREGRINA* (L.) Benth.

**223594 to 223599.**

From Great Britain. Seeds presented by the Department of Botany, Royal Botanic Garden, Edinburgh, Scotland. Received Feb. 3, 1955.

**223594.** *RUBUS FLOSCULOSUS* Focke Rosaceae.

**223595.** *RUBUS GIRALDIANUS* Focke

**223596.** *RUBUS INOPERTUS* Focke

**223597.** *RUBUS PEDUNCULOSUS* Don

**223598.** *RUBUS THIBETANUS* Franch.

**223599.** *RUBUS COREANUS* Miquel. **Korean raspberry.**

**223600.** *LABURNUM ALPINUM* (Mill.) Berch. & Presl Fabaceae.  
**Scotch laburnum.**

From Denmark. Seeds presented by the University Botanic Garden, Copenhagen. Received Feb. 3, 1955.

**223601.** *RAUVOLFIA SERPENTINA* Benth. Apocynaceae.  
**Java devilpepper.**

From China. Seeds presented by Eli Lilly & Co., Indianapolis, Indiana. Received Feb. 3, 1955.

**223602 to 223604.**

From Japan. Cuttings presented by the Horticultural Experiment Station, Shinobagun, Fukushima-ken. Received Feb. 4, 1955.

**223602.** *MALUS SYLVESTRIS* Mill. Malaceae. **Apple.**  
'Mutsu'.

**223603.** *PRUNUS DOMESTICA* L. Amygdalaceae. **Common plum.**  
'Ohishi-Wase'.

**223604.** *PYRUS COMMUNIS* L. Malaceae. **Pear.**  
'Nizisseiki'.

**223605.** *DACTYLIS GLOMERATA* L. Poaceae. **Orchardgrass.**

From New Zealand. Seeds presented by Arthur Yates & Co., Limited, Auckland. Received Feb. 4, 1955.

**223606 and 223607.** *ZEA MAYS* L. Poaceae. **Corn.**

From Nicaragua. Seeds presented by the Departamento Agronomica, Managua. Received Feb. 4, 1955.

**223606.** P.D. (M.S.) 6.

**223607.** 'Venezuela 3'.

**223608. RUBUS LASIOSTYLUS Focke Rosaceae. Woolly raspberry.**

From Great Britain. Plants presented by the Royal Botanic Garden, Edinburgh, Scotland. Received Feb. 7, 1955.

**223609 and 223610.**

From the Anglo-Egyptian Sudan. Seeds presented by the Research Division, Ministry of Agriculture, Wad Medani. Received Feb. 7, 1955.

**223609. COFFEA CANEPHORA Pierre ex Froehn. Rubiaceae. Coffee.**

**223610. COFFEA EXCELSA Cheval. Congo coffee.**

**223611. COFFEA BENGALENSIS Roxb. Rubiaceae. Coffee.**

From India. Seeds presented by G. Ghose & Company, Towend, Darjeeling. Received Feb. 7, 1955.

**223612. ORYZA SATIVA L. POACEAE. Rice.**

From Uruguay. Seeds presented by S. A. Malinos, Arroceros Nacionales, Montevideo. Received Feb. 8, 1955.

Selection No. 388 (Rough).

**223613 to 223632.**

From Great Britain. Seeds presented by the Royal Horticultural Society Gardens, Wisley, Ripley, Surrey, England. Received Feb. 8, 1955.

**223613. PAEONIA VEITCHII Lynch. Ranunculaceae. Peony.**

**223614. PIERIS TAIWANENSIS Hayata. Ericaceae.**

**223615. PODOPHYLLUM EMODI Wall. ex Hook. f. & Thoms. Berberidaceae. Himalayan mayapple.**

**223616. PRIMULA ALPICOLA (W. W. Smith) Stapf Primulaceae. Alpine primrose.**

**223617. PRIMULA ALPICOLA var. VIOLACEA Stapf Primrose.**

**223618. PRIMULA AURANTIACA W. W. Smith Orange primrose.**

**223619. PRIMULA AURICULA L. Auricula primrose.**

**223620. PRIMULA BULLEYANA Forrest Bulleys primrose.**

**223621. PRIMULA CAPITATA Hook. Purplehead primrose.**

**223622. PRIMULA CHUNGENSIS Balf. & Ward Yellowsweet primrose.**

**223623. PRIMULA DENTICULATA J. E. Smith Himalayan primrose.**

**223624 and 223625. PRIMULA FLORINDAE K. Ward Tibetan primrose.**

**223624. (No data.)**

**223625. Red form.**

**223626. PRIMULA HELODOXA Balf. Amber primrose.**

**223627. PRIMULA HEUCHERIFOLIA Franch. Primrose.**

**223628. PRIMULA JAPONICA A. Gray Japanese primrose.**

**223629. PRIMULA NUTANS Delav. ex Franch. Sleepy primrose.**

**223630. PRIMULA PROLIFERA Wall. Primrose.**

**223631 and 223632. PRIMULA PULVERULENTA Duthie Silverdust primrose.**

**223631. (No data.)**

**223632. Bartley strain.**

**223633 and 223634.**

From Portugal. Seeds presented by Jose dos Santos Ruivo Matafome, Alvega. Received Feb. 9, 1955.

**223633. ORNITHOPUS SATIVUS Prot. Fabaceae. Serradella.**

**223634. VICIA FABA L. Fabaceae. Broadbean.**



- 223635.** *VIGNA SESQUIPEDALIS* (L.) Fruhwirth Fabaceae. **Yardlong cowpea.**  
 From Australia. Seeds collected by Gerald L. Smith, University of New Hampshire, Durham, N. H. Numbered Feb. 9, 1955.
- 223636 to 223641.**  
 From Iran. Seeds presented by the United States Operations Mission to Iran, Tehran.
- 223636 to 223638.** *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**  
 From a market; grown at Astara. August, 1954.
- 223636.** No. 1. Flesh yellow, crisp, sweet.
- 223637.** No. 2. Fruit round, yellow with green stripes; flesh light cream; sweet.
- 223638.** No. 3. Fruit round, yellow; flesh light cream, crisp; very sweet.
- 223639.** *ROSA* sp. Rosaceae.  
 No. 1. Northwest of Shahrud, in Gorgan area. September 1954.
- 223640.** *ROSA* sp.  
 No. 2. Near Gorgan, southeast of the Caspian Sea.
- 223641.** *ROSA* sp.  
 No. 3. Caspian Sea region, near Rasht.
- 223642.** *CITRUS GRANDIS* (L.) Osbeck Rutaceae. **Pummelo.**  
 From French Oceania. Budwood presented by the Service d'Agriculture Experimentale, Papeete, Tahiti. Received Feb. 10, 1955.  
 'Sarawak'
- 223643 to 223657.**  
 From France. Plants and budwood presented by the Georges Delbard Nurseries, Malicorne, Paris. Received Feb. 10, 1955.
- 223643 to 223646.** Plants.
- 223643.** *RUBUS* sp. Rosaceae.  
 'Heytor'.
- 223644.** *RUBUS* sp.  
 'La France'.
- 223645.** *RUBUS* sp.  
 'Perpetuelle de Billard'.
- 223646.** *RUBUS* sp.  
 'Souvenir de Degire Bruncan'.
- 223647 to 223657.** *PRUNUS ARMENIACA* L. Amygdalaceae. **Apricot.**  
 Budwood.
- 223647.** 'Bergeron'. **223653.** 'Poizat'.
- 223648.** 'Blanc Rose'. **223654.** 'Precoc de Boulbon'.
- 223649.** 'Bulida'. **223655.** 'Precoc de Tontplaisia'.
- 223650.** 'Commun'. **223656.** 'Rouge du Rossipon'.
- 223651.** 'De Hollande'. **223657.** 'Sucre de Holub'.
- 223652.** 'Paviot'.
- 223658 to 223666.**  
 From the Netherlands. Plants and budwood presented by the Instituut voor de Veredeling van Tuinbouwgewassen, Wageningen. Received Feb. 10, 1955.
- 223658 to 223665.** *FRAGARIA VESCA* L. Rosaceae. **European strawberry.**

**223658 to 223666—Continued****223658 to 223665—Continued**

Plants.

**223658.** I.V.T. 667.**223662.** 'Jucunda'.**223659.** I.V.T. 707.**223663.** 'Kuntnars Triumph'.**223660.** I.V.T. 787.**223664.** 'Mieruailleuse de Tihange'.**223661.** I.V.T. 790.**223665.** 'Triomphe de Tihange'.**223666.** *MALUS SYLVESTRIS* Mill. Malaceae.

Apple.

'St. Anna Rode Boskoop'. Budwood.

From Gooniwindi, Queensland. Jan. 21, 1955. Semiarid land.

**223667.** *ORMOSIA PANAMENSIS* Benth. Fabaceae.

From Cuba. Seeds presented by the Atkins Garden and Research Laboratory, Cienfuegos. Received Feb. 14, 1955.

'Peronil'.

**223668 to 223677.**

From Iran. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md.

Received Feb. 10, 1955.

**223668.** *AGROPYRON INTERMEDIUM* (Host) Beauv. Poaceae.

Intermediate wheatgrass.

Col. No. 1639. Road from Meshginshahr to Ahar, Azerbaijan. Nov. 11, 1954.

Elevation 4,000 feet. Plant to 3 feet high.

**223669.** *BRACHYPODIUM SYLVATICUM* (Huds.) Beauv. Poaceae.

Col. No. 1568. Nine miles west of Astara, Azerbaijan. Nov. 8, 1954. Elevation 700 feet. Plant with broad leaves.

**223670.** *AIRA CAPILLARIS* Host Poaceae.

Annual hair-grass.

Col. No. 1562. Twenty miles east of Ardabil, road to Astara, Azerbaijan. Nov. 8, 1954. Elevation 4,700 feet.

**223671.** *HELIANTHUS ANNUUS* L. Asteraceae.

Common sunflower.

Col. No. 1498. 'Aftab Gardan'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet. Seeds used for oil or eaten as food.

**223672.** *BROMUS SCOPARIUS* L. Poaceae.

Brome.

Col. No. 1558. Twenty miles east of Ardabil, road to Astara, Azerbaijan. Nov. 8, 1954. Elevation 4,700 feet.

**223673 and 223674.** *LALLEMANTIA IBERICA* (Bieb.) Fisch. & Meyer Menthaceae.**223673.** Col. No. 1492. 'Bazrak-i-Siah'. Market, Tabriz. Nov. 5, 1954. Elevation 4,500 feet. Seeds ground and eaten.**223674.** Col. No. 1557. 'Bazrakeh Siah'. Market, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet.**223675.** *SATUREJA HORTENSIS* L. Menthaceae.

Summer savory.

Col. No. 1556. 'Marzeh'. March, Ardabil, Azerbaijan. Nov. 8, 1954. Elevation 5,000 feet. Leaves used as a vegetable.

**223676.** *PHLEUM PANICULATUM* Huds. Poaceae.

British timothy.

Col. No. 1567. Twelve miles west of Astara, Azerbaijan. Nov. 8, 1954. Elevation 900 feet.

**223677.** *SETARIA VIRIDIS* (L.) Beauv. Poaceae.

Green bristlegrass.

Col. No. 1566. Twelve miles west of Astara, Azerbaijan. Nov. 8, 1954. Elevation 900 feet. Wet ravine forest near the Caspian Sea.

**223678 to 223680.**

From Great Britain. Trees presented by R. C. Notcutt Limited, Woodbridge, Suffolk, England. Received Feb. 10, 1955.

**223678.** *ACER PLANTANOIDES* L. Aceraceae. **Norway maple.**  
'Goldworth Purple'.

**223679.** *MALUS* (hybrid). Malaceae.  
'Van Houttei'.

**223680.** *RIBES SANGUINEUM* Pursh Saxifragaceae. **Winter currant.**  
'Pulborough Scarlet'.

**223681.** *ILEX AQUILIFOLIUM* L. Aquifoliaceae. **English holly.**

From Yugoslavia. Seeds presented by the Institut za Gozdno, Lesno, Ljubljana. Received Feb. 10, 1955.

From Panovec, Gorica District.

**223682.** *TEPHROSIA VOGELII* Hook. f. Fabaceae.

From Liberia. Seeds presented by the United States Operations Mission to Liberia. Received Feb. 10, 1955.

From the Central Experiment Station, Swakoko.

**223683 to 223720.**

From India. Seeds presented by the Division of Agriculture and Plant Breeding, Institute of Agriculture, Anand, Bombay Stat. Received Feb. 11, 1955.

**223683 and 223684.** *ARACHIS HYPOGAEA* L. Fabaceae. **Peanut.**

**223683.** No. 10. 'Sanrol No. 1'. Spreading type.

**223684.** No. 11. A.K. 10. Erect type.

**223685 to 223687.** *CYAMOPSIS TETRAGONOLOBA* (L.) Taub. Fabaceae. **Guar.**

**223685.** No. 2. S-160-1. Vegetable type.

**223686.** No. 3. 78-21-6. Feed type.

**223687.** No. 4. S-298-17. Vegetable type.

**223688.** *GOSSYPIMUM ARBOREUM* L. Malvaceae. **Asiatic tree cotton.**  
No. 31. Red.

**223689 to 223695.** *GOSSYPIMUM HERABCEUM* L. **Levant cotton.**

**223689.** No. 25. Plants normal green; flowers yellow.

**223690.** No. 26. Flowers white.

**223691.** No. 27. Plants pale green; flowers white.

**223692.** No. 28.

**223693.** No. 29. Plants pale green.

**223694.** No. 30. Seeds with no lint.

**223695.** No. 31A. Seeds with fuzzy lint.

**223696 to 223708.** *GOSSYPIMUM HIRSUTUM* L. **Upland cotton.**

**223696.** No. 12. 'Indore 2'. **223703.** No. 19. B.C. 68.

**223697.** No. 13. 170-C02. **223704.** No. 20. 'Laxmi'.

**223698.** No. 14. 134-C02 Meade. **223705.** No. 21. C02.

**223699.** No. 15. 'Punjab, L.S.S. **223706.** No. 22. 68-22.

**223700.** No. 16. C04-B-40. **223707.** No. 23. 'Punjab 216F'.

**223701.** No. 17. 'Dhar'. Cambodia. **223708.** No. 24. 'Buri 0394'.

**223702.** No. 18. 'Parbhani'. American.

**223683 to 223720—Continued**

- 223709.** *PHASEOLUS ACONITIFOLIUS* Jacq. Fabaceae. Moth bean.  
No. 6.
- 223710 and 223711.** *PHASEOLUS AUREUS* Roxb. Mung bean.  
**223710.** No. 1. Seeds black.  
**223711.** No. 5. Seeds green.
- 223712.** *RICINUS COMMUNIS* L. Euphorbiaceae. Castor bean.  
No. 9A.
- 223713 and 223714.** *SESAMUM INDICUM* L. Pedaliaceae. Sesame.  
**223713.** No. 7. 'Til-Monsoon'. Seeds white.  
**223714.** No. 8. 'Tali'. Seeds white.
- 223715 to 223719.** *SORGHUM VULGARE* Pers. Poaceae.  
**223715.** No. 32. 'Wani 14'. Grain type.  
**223716.** No. 33. 'Wani 15'. Grain type.  
**223717.** No. 34. 'Lhandesh Wani'. Grain type.  
**223718.** No. 35. 'Budhperio 53'. Grain type.  
**223719.** No. 36. S 1049. Forage type.
- 223720.** *VIGNA SINENSIS* (Torner) Savi Fabaceae. Common cowpea.  
No. 9. Short-podded type.
- 223721 to 223734.** *SOLANUM TUBEROSUM* L. Solanaceae. Potato.  
From Wisconsin. Tubers at the Potato Introduction Station, Sturgeon Bay.  
Numbered Feb. 14, 1955.  
From the Department of Plant Pathology, University of Wisconsin, Madison, Wis.
- |                                 |                                 |
|---------------------------------|---------------------------------|
| <b>223721.</b> 'Arran Banner'.  | <b>223728.</b> 'Canso'.         |
| <b>223722.</b> 'Arran Cairn'.   | <b>223729.</b> 'Craigs Bounty'. |
| <b>223723.</b> 'Arran Scout'.   | <b>223730.</b> 'Maritta'.       |
| <b>223724.</b> 'Arran Victory'. | <b>223731.</b> 'Matador'.       |
| <b>223725.</b> 'Ballydoon'.     | <b>223732.</b> 'Parnassia'.     |
| <b>223726.</b> 'Bevelander'.    | <b>223733.</b> 'Voran'.         |
| <b>223727.</b> 'British Queen'. | <b>223734.</b> 'Ysselster'.     |
- 223735.** *PRUNUS SEROTINA* var. *SALICIFOLIA* (Kunth) Koehne  
Amygdalaceae.  
From Ecuador. Seeds presented by the Servicio Cooperativo Inter-Americano de Agricultura, Quito. Received Feb. 14, 1955.  
'Capuli'.
- 223736.** *CAMELLIA RETICULATA* Lindl. Theaceae. Netvein camellia.  
From Portugal. Plant received from Alfredo Moreira da Silva & Fos, Porto. Received Feb. 14, 1955.  
'Robert Fortune'.
- 223737.** *ORYZA SATIVA* L. Poaceae. Rice.  
From Japan. Seeds presented by the Chugoku Agricultural Experiment Station, Tadera, Hyogo-ken. Received Feb. 15, 1955.  
Pi-No. 1.



**223738 to 223745. Gossypium sp. Malvaceae.**

From Pakistan. Seeds obtained by the United States Operations Mission, Karachi.  
Received Feb. 15, 1955.

Collected at Lyallpur.

223738. 268F. 223742. 289F/124.

223739. 289F/238. 223743. 4F.

223740. 216F. 223744. L.S.S.

223741. 289F/43. 223745. 289F/199.

**223746. CRATAEGUS PINNATIFIDA Bunge Malaceae. Hawthorn.**

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Horticultural Crops Research Branch, Beltsville, Md.

Col. No. 1193. On trail to Yakatal, Badakhshan.

**223747 to 223752. SACCHARUM (hybrids). Poaceae. Sugarcane.**

From Nicaragua. Cuttings presented by the Servicio Tecnico Agricola de Nicaragua, Managua. Received Feb. 15, 1955.

223747. 'Badilla'. 223750. D-1135.

223748. 'Caledonia Amarilla'. 223751. 'Rioas'.

223749. 'Chapina'. 223752. 'Walluca'.

**223753 to 223831.**

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Horticultural Crops Research Branch, Plant Introduction Section, Beltsville, Md.  
Received Feb. 15, 1955.

Collected during September and October 1954.

**223753 and 223754. ANETHUM GRAVEOLENS L. Apiaceae. Dill.**

223753. Col. No. 1152. 'Zardek'. Jurm, Badakhshan. Elevation 4,800 feet.

223754. Col. No. 1183. 'Shibit'. Faizabad, Badakhshan. Elevation 4,000 feet. Leaves used as a green or cooked vegetable; also as forage.

**223755. BETA VULGARIS L. Chenopodiaceae. Common Beet.**

Col. No. 1180. 'Lablaboo'. Faizabad, Badakhshan. Elevation 4,000 feet.

**223756. BRASSICA RAPA L. Brassicaceae. Turnip.**

Col. No. 1185. 'Shalghem'. Faizabad, Badakhshan. Elevation 4,000 feet.

**223757. BRASSICA CAMPESTRIS L. Bird rape.**

Col. No. 1063. 'Sharshem'. Ghorband Valley, Kabul. Elevation 6,500 feet. Oilseed.

**223758. BRASSICA sp.**

Col. No. 1113. Khash, Jurm, Badakhshan. Elevation 6,700 feet. Used as forage.

**223759. BRASSICA CAMPESTRIS L. Bird rape.**

Col. No. 1234. 'Sharsham'. Kataghan. Elevation 5,200 feet. Oilseed.

**223760. CAJANUS CAJAN (L.) Druce Fabaceae. Pigeonpea.**

Col. No. 1343. Laghman, Eastern Province. Elevation 2,600 feet. Plant to 8 feet high, 3-leaved; flowers yellow. Planted around the edges of sugarcane fields to protect the cane from cattle.

**223761. CERCIS SILIQUASTRUM L. Fabaceae. Judas-tree.**

Col. No. 1073. Khanabad River, Khanabad, Kataghan. Elevation 3,300 feet.

**223753 to 223831—Continued**

- 223762 and 223763.** *CICER ARIETINUM* L. Fabaceae. **Chickpea.**  
**223762.** Col. No. 1217. 'Nakhood'. Yakatal, Badakhshan. Elevation 6,000 feet.  
**223763.** Col. No. 1283. 'Nakhood'. Khanabad, Kataghan. Elevation 2,000 feet.
- 223764 and 223765.** *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. **Watermelon.**  
**223764.** Col. No. 1148. Jurm, Badakhshan. Elevation 4,800 feet.  
**223765.** Col. No. 1190. Trail to Yakatal, Badakhshan. Elevation 4,200 feet.  
 Fruit to 1 foot in diameter; flavor excellent.
- 223766.** *CRATAEGUS* sp. Malaceae.  
 Col. No. 1192. 'Dolana'. Trail to Yakatal, Badakhshan. Elevation 5,000 feet.
- 223767 to 223772.** *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**  
**223767.** Col. No. 1146. 'Kharbozeh'. Jurm, Badakhshan.  
**223768.** Col. No. 1156. Jurm, Badakhshan. Elevation 4,800 feet. Fruit oval, green; flesh green; flavor excellent.  
**223769.** Col. No. 1177. 'Kharbozeh-i-Zamburchehs'. Faizabad Badakhshan. Elevation 4,000 feet. Fruit elongate; flavor poor.  
**223770.** Col. No. 1191. Trail to Yakatal, Badakhshan. Elevation 4,200 feet. Flavor excellent.  
**223771.** Col. No. 1289. 'Kharbozeh-i-Asqalani'. Khanabad, Kataghan. Elevation 2,000 feet.  
**223772.** Col. No. 1293. 'Kharbozeh'. Pul-i-Khumri, Kataghan. Elevation 2,500 feet.
- 223773.** *CUCURBITA PEPO* L. Cucurbitaceae. **Pumpkin.**  
 Col. No. 1186. 'Shir-Kadoo'. Faizabad, Badakhshan. Elevation 4,000 feet.
- 223774.** *CUMINUM CYMINUM* L. Apiaceae. **Cumin.**  
 Col. No. 1101. 'Zireh-i-Siah'. Market, Faizabad, Badakhshan. Elevation 4,000 feet. Wild type; seeds black; used as a spice.
- 223775 and 223776.** *CYDONIA OBLONGA* Mill. Malaceae. **Quince.**  
**223775.** Col. No. 1307. 'Behi'. Jalalabad. Elevation 2,300 feet. Fruit yellow, to 3 inches in diameter.  
**223776.** Col. No. 1345. 'Behi'. Eastern Province. Elevation 3,500 feet. Wild type; fruit to 4 inches in diameter.
- 223777.** *DAUCUS CAROTA* L. Apiaceae. **Carrot.**  
 Col. No. 1181. 'Zardak'. Faizabad, Badakhshan.
- 223778 to 223781.** *ELAEAGNUS ANGUSTIFOLIA* L. Elaeagnaceae. **Russian-olive.**  
 Fruits dried; eaten in winter.  
**223778.** Col. No. 1064. 'Sinjed-i-Makhak'. Ghorband Valley, Kabul. Elevation 6,500 feet.  
**223779.** Col. No. 1065. 'Sinjed-i-Khormahi'. Ghorband Valley, Kabul. Elevation 6,500 feet.  
**223780.** Col. No. 1110. 'Sinjed-i-Khasaki'. Barak, Badakhshan. Elevation 5,000 feet.  
**223781.** Col. No. 1112. 'Sinjed-i-Khasaki'. Barak, Badakhshan. Elevation 5,000 feet. Fruit also eaten fresh.

**223753 to 223831—Continued****223782.** GLYCYRRHIZA sp. Fabaceae.

Col. No. 1127. 'Baiah'. Khash, Jurm, Badakhshan. Elevation 6,700 feet. Cut and dried for cattle feed in winter.

**223783.** IRIS sp. Iridaceae.

Col. No. 1166. Juniper Slope near Barak, Badakhshan. Elevation 6,000 feet.

**223784.** LAWSONIA INERMIS L. Lythraceae.**Henna.**

Col. No. 1324. 'Khineh'. Jalalabad. Elevation 2,300 feet.

**223785.** LUFFA AEGYPTIACA Mill. Cucurbitaceae.**Suakwa towelgourd.**

Col. No. 1188. 'Toraie'. Faizabad, Badakhshan. Elevation 4,000 feet. Cooked as a vegetable.

**223786.** MEDICAGO LUPULINA L. Fabaceae.**Black medic.**

Col. No. 1125. 'Rishqueh'. Khash, Jurm, Badakhshan. Elevation 6,700 feet.

**223787 to 223789.** MEDICAGO SATIVA L.**Alfalfa.****223787.** Col. No. 1207. 'Rishqueh'. Yakatal, Badakhshan. Elevation 6,000 feet. Cut four times a year.**223788.** Col. No. 1253. 'Rishqueh'. Kataghan. Elevation 7,000 feet.**223789.** Col. No. 1080. 'Rishqueh'. Kalifgan, Kataghan. Elevation 5,200 feet.**223790.** MORUS ALBA L. Moraceae.**White mulberry.**

Col. No. 1102. 'Shir-Toot'. Market, Faizabad, Badakhshan. Eaten fresh or dried.

**223791 to 223796.** PANICUM MILIACEUM L. Poaceae.**Proso millet.****223791.** Col. No. 1082. 'Tareq' or 'Arzan'. Kalifgan, Katagan. Elevation 5,300 feet.**223792.** Col. No. 1114. 'Arzan'. Khash, Jurm, Badakhshan. Elevation 6,700 feet.**223793.** Col. No. 1137. 'Arzan'. Jurm, Badakhshan. Elevation 4,800 feet.**223794.** Col. No. 1165. 'Arzan'. Chakaran, Badakhshan. Elevation 5,200 feet.**223795.** Col. No. 1228. 'Arzan'. Kishma, Badakhshan. Elevation 3,000 feet.**223796.** Col. No. 1306. 'Arzan'. Jalalabad. Elevation 2,300 feet.**223797 to 223799.** PAPAVER SOMNIFERUM L. Papaveraceae.**Opium poppy****223797.** Col. No. 1084. 'Khash-Khash'. Kishma, Badakhshan. Elevation 3,300 feet. Oil obtained from seeds and opium from capsules.**223798.** Col. No. 1116. 'Khash-Khash'. Khash, Jurm, Badakhshan. Elevation 6,700 feet.**223799.** Col. No. 1157. 'Khash-Khash'. Chakaran, Badakhshan. Elevation 5,200 feet.**223800.** PEGANUM HARMALA L. Zygophyllaceae.**Harmel peganum.**

Col. No. 1303. 'Spand'. Jalalabad. Elevation 2,300 feet.

**223801.** PHASEOLUS ACONITIFOLIUS A. Gray Fabaceae.**Moth bean.**

Col. No. 1336. 'Mote'. Laghman, Jalalabad. Elevation 2,500 feet.

**223802.** PHASEOLUS AUREUS Roxb.**Mung bean.**

Col. No. 1068. 'Mash'. Doshi, Kataghan. Elevation 3,200 feet.

**223803.** PHASEOLUS COCCINEUS L.**Scarlet runner bean.**

Col. No. 1144. 'Lobia'. Jurm, Badakhshan. Elevation 4,800 feet.



**223753 to 223831—Continued**

**223804.** *PLANTAGO OVATA* Forsk. Plantaginaceae. **Plantain.**

Col. No. 1295. 'Esfarzen'. Jalalabad. Elevation 2,300 feet. Used as a medicinal tea.

**223805 to 223807.** *PHOENIX DACTYLIFERA* L. Phoenicaceae. **Date palm.**

**223805.** Col. No. 1320. 'Khorma-i-Sorkh'. Jalalabad. Elevation 2,300 feet. Red type; used dried.

**223806.** Col. No. 1321. 'Khorma-i-Zard'. Jalalabad. Elevation 2,300 feet. Yellow type; reportedly best in area.

**223807.** Col. No. 1381. 'Jalghozeh'. Market, Kabul. Growing at New Gardez.

**223808.** *PRUNUS AVIUM* L. Amygdalaceae. **Sweet cherry.**

Col. No. 1140. 'Gilass'. Jurm, Badakhshan. Elevation 4,800 feet.

**223809.** *PRUNUS CERASUS* L. **Sour cherry.**

Col. No. 1178. 'Aloobaloo'. Faizabad, Badakhshan. Elevation 4,000 feet. Dried for winter use.

**223810.** *PRUNUS DOMESTICA* L. **Common plum.**

Col. No. 1105. 'Aloocheh-niltak'. Barak, Badakhshan. Elevation 5,000 feet. Wild type; originally from Pamir mountains.

**223811 and 223812.** *PRUNUS PERSICA* (L.) Batsch **Peach.**

**223811.** Col. No. 1141. 'Shaftaloo'. Jurm, Badakhshan. Elevation 4,800 feet. Fruits medium-sized, to 3 inches in diameter; skin white with red blush; flesh white; flavor good.

**223812.** Col. No. 1143. 'Shaftaloo'. Jurm, Badakhshan. Elevation 4,800 feet. Fruits to 2 inches in diameter; skin yellow; flavor good.

**223813.** *PYRUS* sp. Malaceae.

Col. No. 1089. 'Nak-i-Kohi'. Market, Faizabad, Badakhshan. Elevation 4,000 feet. Fruits to 2 inches in diameter; color green; flavor good.

**223814.** *PYRUS* sp.

Col. No. 1211. Yakatal, Badakhshan. Elevation 6,000 feet. Wild type; fruit to 2 inches in diameter.

**223815 to 223817.** *SESAMUM INDICUM* L. Pedaliaceae. **Sesame.**

**223815.** Col. No. 1226. 'Konjet'. Kishma, Badakhshan. Elevation 3,000 feet. Oilseed.

**223816.** Col. No. 1274. Taliqan, Kataghan. Elevation 3,000 feet. Oilseed.

**223817.** Col. No. 1287. 'Konjet'. Khanabad, Kataghan. Oct. 3, 1954.

**223818.** *SESBANIA SESBAN* (L.) Merr. Fabaceae.

Col. No. 1338. 'Jinjir'. Laghman, Eastern Province. Elevation 2,500 feet. Eaten by sheep and cattle.

**223819.** *SORGHUM VULGARE* Pers. Poaceae.

Col. No. 1292. Pul-i-Khumri, Kataghan. Elevation 2,500 feet.

**223820.** *SORGHUM* sp.

Col. No. 1218. Ten miles south of Faizabad, Badakhshan. Elevation 3,800 feet. Tall perennial used in weaving mats.

**223821.** *TRIFOLIUM FRAGIFERUM* L. Fabaceae. **Strawberry clover.**

Col. No. 1075. 'Seh-Bargah'. Kalifgan, Kataghan. Elevation 4,500 feet.

**223822 to 223824.** *TRIFOLIUM REPENS* L. **White clover.**

**223822.** Col. No. 1128. 'Shaftal-i-Kohi' Khash, Jurm, Badakhshan.



**223753 to 223831—Continued****223822 to 223824—Continued**

223823. Col. No. 1246. 'Shaftal'. Kataghan. Elevation 6,500 feet.

223824. Col. No. 1256. 'Shaftal'. Kataghan. Elevation 8,000 feet.

**223825 to 223827. TRIFOLIUM RESUPINATUM L. Persian clover.**

223825. Col. No. 1103. 'Shaftal'. Barak, Faizabad, Badakhshan. Elevation 5,000 feet.

223826. Col. No. 1233. 'Shaftal'. Kataghan. Elevation 5,200 feet.

223827. Col. No. 1288. Khanabad, Kataghan. Elevation 2,000 feet.

**223828. TRIFOLIUM PRATENSE L.****Red clover.**

Col. No. 1257. 'Shaftal'. Kataghan. Elevation 8,000 feet. Plant large, reddish; on rocky bank of stream.

**223829 to 223831. ZEA MAYS L. Poaceae.****Corn.**

223829. Col. No. 1206. 'Joweri'. Yakatal, Badakhshan. Elevation 6,000 feet.

223830. Col. No. 1271. 'Joweri'. Taliqan, Kataghan. Elevation 3,000 feet.

223831. Col. No. 1282. 'Joweri'. Khanabad, Kataghan. Elevation 2,000 feet.

**223832 to 223834. MALUS SYLVESTRIS Mill. Malaceae.****Apple.**

From Denmark. Scions presented by F. M. Knuth, Knuthenborg, Bandholm. Received Feb. 16, 1955.

223832. 'Geeveston Fanny'. (Typical).

223833. 'Geeveston Fanny'. (Russell Red Strain).

223834. 'James Grieve'. (Red strain).

**223835. ORYZA SATIVA L. Poaceae****Rice.**

From Japan. Seeds presented by the Chugoku Agricultural Experiment Station, Tadera, Hyogo-Ken. Received Feb. 15, 1955.

Pi.-No. 2.

**223836. GALANTHUS sp. Amaryllidaceae.**

From the Netherlands. Plants presented by Kapiteijn & Sons, Hillegom. Received Feb. 17, 1955.

**223837 and 223838.**

From Great Britain. Plants presented by the Scottish Horticultural Research Institute, Mylnefield, Invergowrie, Dundee, Scotland. Received Feb. 17, 1955.

223837. RUBUS sp. Rosaceae.

'Malling Exploit'.

223838. RUBUS sp.

'Malling Jewel'.

**223839. ORYZA SATIVA L. Poaceae.****Rice.**

From Paraguay. Seeds presented by Fred J. Kemp, Primavera. Received Feb. 18, 1955.

**223840. CYPERUS ESCULENTUS L. Cyperaceae.****Chufa.**

From Indonesia. Corms presented by the Bogor Botanic Garden through the United States Operations Mission, Bogor. Received Feb. 25, 1955.

Grown at Kebun Raya.

**223841 to 223844.**

From the Philippines. Seeds presented by the Central Experiment Station, College, Laguna. Received Feb. 21, 1955.

**223841 to 223844—Continued**

223841. *CUCUMIS SATIVUS* L. Cucurbitaceae. Cucumber.  
 223842. *CUCURBITA MOSCHATA* Duchesne Cucurbitaceae. Cushaw.  
 223843. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato.  
 223844. *SOLANUM MELONGENA* L. Solanaceae. Eggplant.

**223845. HYPARRHENIA RUFA** (Nees) Stapf Poaceae. **Jaragua.**

From Panama. Seeds presented by the Servicio Inter-Americano de Cooperacion Agricola en Panama, Panama City. Received Feb. 21, 1955.

**223846. DIOSPYROS KAKI** L. f. Diospyraceae. **Oriental persimmon.**

From Japan. Scions presented by the National Institute of Agricultural Science, Hiratsuka. Received Feb. 21, 1955.

'Matsumoto Wase Fuyu'. Cultivated by Yutaka Matsumoto at Shigasatomura, Ikaruka-gun, Kyoto Prefecture. A somatic sport found in 1935.

**223847. COFFEA** sp. Rubiaceae.

From Mozambique. Seeds presented by A. J. Bettencourt, Maganja da Costa, Zambezia. Received Feb. 21, 1955.

'No. 297'.

**223848 and 223849. PISTACIA VERA** L. Anacardiaceae. **Pistachio.**

From Iran. Seeds presented by the Plant and Animal Protection Bongah, Kerman, through the United States Operations Mission, Tehran. Received Feb. 17, 1955.

223848. Large-split nut.

223849. Medium-split nut.

**223850 and 223851.**

From Great Britain. Cuttings presented by George Jackman & Sons, Woking, Surrey, England. Received Feb. 23, 1955.

223850. *CYTISUS* sp. Fabaceae.

'Burkwood'.

223851. *CYTISUS PRAECOX* Wheeler ex Bean Warminster broom.

'Buttercup'.

**223852 to 223854.**

From Idaho. Bulbs presented by the Agricultural Experiment Station, Parma. Numbered Feb. 24, 1955.

Originally from Japan.

223852. *ALLIUM BAKERI* Regel Liliaceae.

'Rakkyo'. A Japanese pickling onion.

223853 and 223854. *ALLIUM FISTULOSUM* L. Welsh onion.

223853. 'Kujyo-negi'. Used chiefly for green leaves.

223854. 'Iwatsuki-negi'.

**223855. CITRUS INDICA** Tanaka Rutaceae. **India wild orange.**

From India. Seeds presented by the District Agricultural Officer, Naga Hills, Assam. Received Mar. 31, 1955.

**223856 to 223860. RUBUS** sp. Rosaceae.

From France. Plants presented by F. Delaunay, Angers. Received Feb. 24, 1955.

223856. 'All Summer'.

223859. 'Merveille de Quatre Saisons'.

223857. 'Belle de Fontenay'.

223860. 'November Abundance'.

223858. 'LaFrance'.

**223861 to 223863. PISTACIA VERA L. Anacardiaceae. Pistachio.**

From Syria. Seeds presented by the Institut des Fruits et Agrumes Coloniaux, Rabat, Morocco. Received Feb. 24, 1955. Grown at Aleppo.

**223861.** 'Achouri'.

**223862.** 'Alemi'.

**223863.** 'Batouri'.

**223864 to 223867.**

From Australia and New Zealand. Seeds collected and presented by Walter L. Hodde, Wilgena, South Australia. Received Feb. 24, 1955.

**223864.** *ATRIPLEX SPONGIOSA* F. Muell. *Chenopodiaceae*. **Saltbush.**

Collected in desert about 500 miles northwest of Adelaide, Wilgena, South Australia.

**223865.** *BASSIA* sp. *Chenopodiaceae*.

Collected in desert about 500 miles northwest of Adelaide, Wilgena, South Australia.

**223866.** *BRASSICA OLERACEA* var. *VIRIDIS* L. *Brassicaceae*. **Kale.**

Collected at Hawks Bay Farmers' Cooperative Association Limited, eastern shore, North Island, New Zealand.

**223867.** *GERANIUM* sp. *Geraniaceae*.

Collected near Goondiwindi, Queensland, Australia.

**223868 to 223911**

From Afghanistan. Seeds collected by E. E. Smith, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Center, Beltsville, Md. Received Feb. 24, 1955.

**223868.** *ALTHAEA ROSEA* (L.) Cav. *Malvaceae*. **Hollyhock.**

Col. No. 1167. Juniper Slope, near Barak, Badakhshan. Sept. 23, 1954. Elevation 6,100 feet. Wild, growing on dry steep granitic slope.

**223869.** *CELTIS* sp. *Ulmaceae*.

Col. No. 1222. 'Tokh'. Road to Faizabad, Badakhshan. Sept. 28, 1954. Elevation 3,600 feet. Tree to about 20 feet high.

**223870.** *HIBISCUS CANNABINUS* L. *Malvaceae*. **Kenaf.**

Col. No. 1290. 'Kendor'. Khanabad, Kataghan. Oct. 3, 1954. Elevation 2,000 feet.

**223871.** *JUNIPERUS COMMUNIS* L. *Pinaceae*. **Common juniper.**

Col. No. 1250. 'Archeh'. Kataghan. Sept. 30, 1954. Elevation 7,000 feet. Tree to about 30 feet high on rocky hillside.

**223872.** *MEDICAGO LUPULINA* L. *Fabaceae*. **Black medic.**

Col. No. 1259. 'Sehbar'. Kataghan. Oct. 1, 1954. Elevation 9,000 feet.

**223873.** *VICIA* sp. *Fabaceae*.

Col. No. 1255. 'Moshong-i-Kohi'. Kataghan. Oct. 1, 1954. Elevation 7,500 feet. Received Feb. 25, 1955. Collected between Sept. 15 and Oct. 3, 1954.

**223874 to 223883.** *HORDEUM VULGARE* L. *Poaceae*. **Barley.**

**223874.** Col. No. 1122. 'Jow-i-Lalmi'. Khash, Jurm, Badakhshan. Elevation 6,700 feet. Nonirrigated spring type.

**223875.** Col. No. 1160. 'Jow-i-Lalmi'. Chakaran, Badakhshan. Elevation 5,200 feet. Dryland type.

**223876.** Col. No. 1161. 'Jow-i-Abi'. Chakaran, Badakhshan. Elevation 5,200 feet. Irrigated type.



**223868 to 223911—Continued****223874 to 223883—Continued**

**223877.** Col. No. 1225. 'Jow-i-Lalmi'. Kishma, Badakhshan. Elevation 3,000 feet. Dryland type; planted in spring.

**223878.** Col. No. 1232. 'Jow'. Kataghan.

**223879.** Col. No. 1240. 'Jow'. Sangam, Kataghan. Spring type. Elevation 6,500 feet.

**223880.** Col. No. 1254. 'Jow'. Kataghan. Elevation 7,000 feet. Spring type.

**223881.** Col. No. 1264. 'Kal-Jow'. Kataghan. Elevation 9,000 feet. Spring type.

**223882.** Col. No. 1270. 'Jow'. Taliqan, Kataghan.

**223883.** Col. No. 1284. 'Jow'. Khanabad, Kataghan.

**223884 to 223890.** *LINUM USITATISSIMUM* L. Linaceae. **Flax.**

**223884.** Col. No. 1104. 'Zegher'. Barak, Badakhshan. Elevation 5,000 feet. Oilseed.

**223885.** Col. No. 1117. 'Zegher'. Khash, Jurm, Badakhshan. Elevation 6,700 feet. Oilseed.

**223886.** Col. No. 1158. 'Zegher'. Chakaran, Badakhshan. Elevation 5,200 feet. Dryland type. Oilseed.

**223887.** Col. No. 1210. 'Zegher'. Yakatal, Badakhshan. Elevation 6,000 feet.

**223888.** Col. No. 1224. 'Zegher'. Kishma, Badakhshan. Elevation 3,000 feet. Oilseed.

**223889.** Col. No. 1275. Taliqan, Kataghan. Oilseed.

**223890.** Col. No. 1285. 'Zegher'. Khanabad, Kataghan. Elevation 2,000 feet. Oilseed.

**223891 to 223894.** *ORYZA SATIVA* L. Poaceae. **Rice.**

**223891.** Col. No. 1067. 'Berenj-i-Luk'. Doshi, Kataghan. Elevation 3,200 feet.

**223892.** Col. No. 1268. Kataghan. Elevation 5,500 feet. Thick type.

**223893.** Col. No. 1276. 'Berenj'. Taliqan, Kataghan. Elevation 3,000 feet. Thin type.

**223894.** Col. No. 1277. 'Berenj'. Taliqan, Kataghan. Thin type.

**223895 to 223897.** *SECALE CEREALE* L. Poaceae. **Rye.**

**223895.** Col. No. 1123. 'Jowder'. Khash, Jurm, Badakhshan. Elevation 6,700 feet. Wild type.

**223896.** Col. No. 1133. 'Jowder'. Jurm, Badakhshan. Elevation 4,800 feet. Weed in irrigated wheat fields.

**223897.** Col. No. 1267. 'Jowder'. Kataghan. Elevation 9,000 feet. Weed in irrigated wheatfields.

**223898 to 223911.** *TRITICUM AESTIVUM* L. Poaceae. **Common wheat.**

**223898.** Col. No. 1118. 'Gandom-i-Sorkheh'. Khash, Jurm, Badakhshan. Elevation 6,700 feet. Nonirrigated red type; planted in spring.

**223899.** Col. No. 1120. 'Gandom'. Khash, Jurm, Badakhshan. Elevation 6,700 feet. Irrigated.

**223900.** Col. No. 1121. 'Gandom'. Khash, Jurm, Badakhshan. Elevation 6,700 feet. Irrigated.

**223901.** Col. No. 1134. 'Gandom-i-Tirmahi'. Jurm, Badakhshan. Elevation 4,800 feet. Fall type, irrigated.



**223868 to 223911—Continued****223898 to 223911—Continued**

223902. Col. No. 1162. 'Gandom-i-Lalmi'. Chakaran, Badakhshan. Elevation 5,200 feet. Dryland type.
223903. Col. No. 1214. 'Gandom'. Yakatal, Badakhshan. Elevation 6,000 feet. White; dryland type.
223904. Col. No. 1230. 'Gandom'. Kataghan. Elevation 5,200 feet. Spring type; irrigated.
223905. Col. No. 1243. 'Gandom'. Sangar, Kataghan. Elevation 6,500 feet. Spring type; irrigated.
223906. Col. No. 1265. 'Gandom-i-Safadek'. Kataghan. Elevation 9,000 feet. White type; irrigated; planted in spring.
223907. Col. No. 1266. 'Gandom'. Kataghan. Elevation 9,100 feet. Spring type; irrigated.
223908. Col. No. 1272. 'Gandom'. Taliqan, Kataghan. Elevation 3,000 feet.
223909. Col. No. 1273. 'Gandom'. Taliqan, Kataghan. Elevation 3,000 feet.
223910. Col. No. 1280. 'Gandom'. Kahnabad, Kataghan. Elevation 2,000 feet.
223911. Col. No. 1281. 'Gandom-i-Safadek'. Kahnabad, Kataghan. Elevation 2,000 feet.

**223912. JUGLANS REGIA L. Juglandaceae. Persian walnut.**

From Iran. Seeds presented by the United States Operations Mission, Tehran. Received Feb. 28, 1955.

Collected from a grove on Mount Tochal, north of Tehran.

**223913. PRUNUS TOMENTOSA Thunb. Amygdalaceae. Manchu cherry.**

From Great Britain. Trees presented by the Sunningdale Nurseries, Windlesham, Surrey, England. Received Feb. 28, 1955.

'Fertilis'.

**223914. MANGIFERA INDICA L. Anacardiaceae. Mango.**

From Ceylon. Budwood presented by the Horticultural Officer, Peradeniya. Received Feb. 28, 1955.

'Peter Passand'.

**223915 to 223928.**

From El Salvador. Seeds presented by the United States Operations Mission, Santa Tecla. Received Feb. 28, 1955.

**223915 to 223917. COFFEA ARABICA L. Rubiaceae. Arabian coffee.**

223915. 'Blue Mountain'.

223916. 'Bourbon'.

223917. 'National', Bourbon type.

**223918. COFFEA ARABICA var. COLUMNARIS Cramer Coffee.****223919 to 223921. COFFEA ARABICA L. Arabian coffee.**

223919. 'Erecta'.

223920. 'Guadaloupe'.

223921. 'Le Roy'.

**223922. COFFEA ARABICA var. MARAGOGIPE Froehn. Coffee.****223923. COFFEA ARABICA var. MOKKA Cramer Coffee.**

**223915 to 223928—Continued**

- |                   |                                 |                    |
|-------------------|---------------------------------|--------------------|
| 223924 to 223927. | COFFEA ARABICA L.               | Arabian coffee.    |
| 223924.           | 'Murta'.                        | 223926. 'Sumatra'. |
| 223925.           | 'Padang'.                       | 223927. 'Surinam'. |
| 223928.           | COFFEA ARABICA L. var. ARABICA. | Coffee.            |

**223929 to 223933.**

From Great Britain. Plants purchased from T. Hilling & Co., Limited, Chobham, England. Received Feb. 28, 1955.

- |         |                                |               |
|---------|--------------------------------|---------------|
| 223929. | ACER PLATANOIDES L. Aceraceae. | Norway maple. |
|         | 'Waldersi'.                    |               |
| 223930. | ACER SACCHARINUM L. Aceraceae  | Silver maple. |
|         | 'Pyramidale'.                  |               |
| 223931. | PRUNUS AVIUM L. Amygdalaceae.  | Sweet cherry. |
|         | 'Flore Pleno Grandiflora'.     |               |
| 223932. | PRUNUS PADUS L.                | Bird cherry.  |
|         | 'Flore Pleno'.                 |               |
| 223933. | SALIX ALBA L. SALICACEAE.      | White willow. |
|         | 'Chrysostella'.                |               |

**223934 to 223957. SACCHARUM (hybrids). Poaceae. Sugarcane.**

From Hawaii. Cuttings presented by the Experiment Station, Hawaiian Sugar Planters Association, Honolulu. Received Feb. 28, 1955.

- |         |             |         |                  |
|---------|-------------|---------|------------------|
| 223934. | Mol. 5573.  | 223946. | 'Arundoid A'.    |
| 223935. | Mol. 5843.  | 223947. | 53-4667.         |
| 223936. | 53-4547.    | 223948. | 'Sumatra No. 1'. |
| 223937. | 53-4596.    | 223949. | 51-9001.         |
| 223938. | U.D. 50.    | 223950. | 47-2077.         |
| 223939. | U.D. 110.   | 223951. | 53-4764.         |
| 223940. | 28-4291.    | 223952. | 51-9037.         |
| 223941. | 53-4589.    | 223953. | Hairy 37-1933.   |
| 223942. | Str. Mex.   | 223954. | 53-4586.         |
| 223943. | 51-9002.    | 223955. | 'Arundoid B'.    |
| 223944. | 35 U.H. 13. | 223956. | 28-4399.         |
| 223945. | 33-9039.    | 223957. | 53-4592.         |

**223958 to 223966.**

From Nicaragua. Stolons presented by the Servicio Tecnico Agricola de Nicaragua, Managua. Received Feb. 28, 1955.

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|-------------------|----------------------------|----------|--------------|
| 223958 to 223965. | ZOYSIA MATERLLA (L.) Merr. | Poaceae. | Manilagrass. |
| 223958.           | Stan. 1.                   | 223962.  | Stan. 5      |
| 223959.           | Stan. 2.                   | 223963.  | Stan. 6.     |
| 223960.           | Stan. 3.                   | 223964.  | Stan. 7.     |
| 223961.           | Stan. 4.                   | 223965.  | Stan. 8.     |

223966. LOLIUM (hybrid). Poaceae.  
Stan 9. (*L. perenne* × *multiflorum*).

**223967. LABURNUM ALPINUM (Mill.) Berch. & Presl Fabaceae.**  
**Scotch laburnum.**

From Norway. Seeds presented by the Botanic Garden, University of Oslo, Oslo.  
 Received Mar. 1, 1955.

**223968 to 223984.**

From Brazil. Seeds presented by the Instituto Agronomico do Estado de Sao Paulo.  
 Campinas, Sao Paulo. Received Mar. 1, 1955.

**223968 to 223974. COFFEA ARABICA L. Rubiaceae. Arabian coffee.**

- |   |   |
|---|---|
| <b>223968.</b> 'Bourbon'.<br>(No. C 370-10-23). | <b>223972.</b> 'Murta'.                                 |
| <b>223969.</b> 'Caturra'.                       | <b>223973.</b> 'San Ramon'.                             |
| <b>223970.</b> 'Cera'.                          | <b>223974.</b> 'Xanthocarpa'.<br>(Amarelo de Botucatu). |
| <b>223971.</b> 'Erecta'.                        |   |

**223975. COFFEA (hybrid). Coffee.**  
 (*C. arabica* × *dewevrei*) (No. 387).

**223976. COFFEA CANEPHORA Piiere ex Froehn. Coffee.**  
 (No. C 37.)

**223977 to 223981. COFFEA CONGENSIS Froehn. Coffee.**

- |   |  |
|---|--|
| <b>223977.</b> 'Bangelan'. (No. C 794.)         | <b>223980.</b> 'Chalotti 3'. (No. C 1028-6.) |
| <b>223978.</b> 'Chalotti 3'.<br>(No. C 1028-1.) | <b>223981.</b> 'Chalotti 3'. (No. C 1028-8.) |
| <b>223979.</b> 'Chalotti 3'.<br>(No. C 1028-2.) |  |

**223982 and 223983. COFFEA (hybrid). Coffee.**

- |   |
|---|
| <b>223982.</b> <i>C. congensis</i> × <i>ugandae</i> 2-15. (No. C 1027-1.) |
| <b>223983.</b> <i>C. congensis</i> × <i>ugandae</i> 2-15. (No. C 1027-4.) |

**223984. COFFEA LIBERICA Bull. Liberian coffee.**  
 (No. RP 254.)

**223985 to 223987.**

From Germany. Seeds presented by Anheuser-Busch Inc., St. Louis, Mo. Received  
 Mar. 1, 1955.

**223985. HORDEUM sp. Poaceae.**

'Sommergerst III'. Saatzuchtwirtschaft Johann Firlbeck, Gut Rinkam bei  
 Straubing.

**223986. HORDEUM sp.**

'Wisa Sommergerste'. Breun'sche Saatzuchtwirtschaft Steinbach beim Herzo-  
 genaurach.

**223987. HORDEUM sp.**

'Frankengerste III'. Breun'sche Saatzuchtwirtschaft Galgenhof bei Herzo-  
 genaurach.

**223988 and 223989. PYRUS COMMUNIS L. Malaceae. Pear.**

From Italy. Cuttings presented by the Istituto di Frutticoltura e de Elettrogenetica,  
 Rome. Received Mar. 2, 1955.

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|-----------------------------------|
| <b>223988.</b> 'Fragrans' (410).  |
| <b>223989.</b> 'Porporata' (145). |

**223990. CITRUS SINENSIS (L.) Osbeck Rutaceae. Sweet orange.**

From Japan. Budwood presented by the Shizouka Citrus Experiment Station, Shizuoka-ken. Received Mar. 2, 1955.

'Ugumori Navel'.

**223991. MEDICAGO ARABICA (L.) All. Fabaceae. Spotted burclover.**

From Peru. Seeds presented by the United States Operations Mission, Lima. Received Mar. 2, 1955.

**223992 and 223993. COFFEA ARABICA L. Rubiaceae. Arabian coffee.**

From Costa Rica. Seeds presented by the Inter-American Institute of Agricultural Sciences, Turrialba. Received Mar. 2, 1955.

**223992.** 'Mundo Novo-2544'.

**223993.** 1984.

**223994 to 224002.**

From New Zealand. Seeds presented by the Department of Scientific and Industrial Research, Christchurch. Received Mar. 2, 1955.

**223994. DACTYLIS GLOMERATA L. Poaceae. Orchardgrass.**

BC 656.

**223995. LOLIUM MULTIFLORUM Lam. Poaceae. Ryegrass.**

Bb 419.

**223996. LOLIUM (hybrid).**

Cg 96. (*L. perenne* × *multiflorum*).

**223997. LOTUS PEDUNCULATUS Cav. Fabaceae. Big trefoil.**

A 178.

**223998 to 224000. LUPINUS ANGUSTIFOLIUS L. Fabaceae. Blue lupine.**

**223998.** 'Bitter Pink'.

**223999.** 'Sweet Blue'.

**224000.** 'Sweet White'.

**224001. LUPINUS LUTEUS L. European yellow lupine.**

'Sweet Yellow'.

**224002. MEDICAGO SATIVA L. Fabaceae. Alfalfa.**

'New Zealand Pedigree'.

**224003 to 224043.**

From Costa Rica. Seeds presented by the Inter-American Institute of Agricultural Sciences, Turrialba. Received Mar. 2, 1955.

Originally from sources indicated.

**224003 to 224026. COFFEA ARABICA L. Rubiaceae. Arabian coffee.**

**224003 to 224014.** Instituto de Agronomia Nacional, Guatemala.

**224003.** No. 971. 'Guadaloupe'.

**224004.** No. 972. 'Philippine'.

**224005.** No. 973. 'Chocola'.

**224006.** No. 975. 'Padang'.

**224007.** No. 976. 'Moca'.

**224008.** No. 977. 'Blue Mountain'.

**224009.** No. 980. 'Sumatra'. A strain, not the hybrid 'Sumatra'.



**224003 to 224043—Continued****224003 to 224021—Continued****224003 to 224014—Continued**

224010. No. 981. 'Preanger'.

224011. No. 982. 'Ceylon hybrid'.

224012. No. 983. 'Bourbon' (red).

224013. No. 984. 'San Ramon'. Dwarf variety, originally from Costa Rica.

224014. No. 986. 'Purpurascens'. Distributed generally as 'Blue Mountain'.

**224015 to 224021. Centro Nacional Agronomico, El Salvador.**

224015. No. 987. 'Purpurascens'.

224016. No. 989. 'Guadaloupe'.

224017. No. 990. 'Surinam'.

224018. No. 992. 'Padang'.

224019. No. 993. 'Salvador Nacional'.

224020. No. 995. 'Bourbon' (red).

224021. No. 996. 'Erecta'; not the variety 'Erecta' known from Java and Brazil.

**224022 to 224026. Santa Ana, El Salvador.**

224022. No. 1996.

224025. No. 1999. 6-1.

224023. No. 1997. A-187.

224026. No. 2000.

224024. No. 1998.

**224027. COFFEA ARABICA var. MOKKA Cramer**

From Instituto Nacional de Agricultura, Guatemala. No. 2137. 'Kona'.

**224028 to 224042. COFFEA ARABICA L.****Arabian coffee.**

224028 to 224030. From Instituto Nacional de Agricultura, Guatemala.

224028. No. 2139. 'Surinam'.

224029. No. 2140. 'Le Roy'.

224030. No. 2143. 'Pretoria'.

224031 to 224037. From Ethiopia; collected by W. A. Archer in December, 1950.

224031. No. 2247. Selection from P.I. 194265.

224032. No. 2248. Selection from P.I. 194266.

224033. No. 2249. Selection from P.I. 194724.

224034. No. 2250. Selection from P.I. 194725.

224035. No. 2253. 'Geffel'. Selection from P.I. 194728.

224036. No. 2254. 'Corovana'. Selection from P.I. 194729.

224037. No. 2255. Selection from P.I. 194914.

224038. No. 2299. 'Laurina'. Hacienda Atirro, Costa Rica.

224039. No. 2401. 'Pantgoer'. Federal Experiment Station, Mayaguez, Puerto Rico.

224040. No. 2540. 'Bourbon Amarillo'. ('Xanthocarpa'.) A selection from P.I. 206066. Campinas, Brazil.

224041. 'Villalobos'. Alajuela, Costa Rica.

224042. 'Hilbirido Salvadoreno'. A strain of 'Bourbon'. Alajuela, Costa Rica.

**224043. COFFEA CANEPHORA Pierre ex Froehn.****Coffee.**

No. 2275. Hacienda Atirro, Costa Rica.

**224044. ELEOCHARIS DULCIS (Burm. f.) Trin. Cyperaceae. Matai.**

From the Philippines. Seeds presented by the University of the Philippines, Laguna. Received Mar. 4, 1955.

Seeds collected by the Botany Department, Cavite Province, Luzon, 80 km. from Laguna.

**224045. MEDICAGO SATIVA L. Fabaceae. Alfalfa.**

From France. Seeds presented by A. Rousset & Fils, Paris. Received Mar. 2, 1955. 'Flamande'.

**224046. MANGIFERA INDICA L. Anacardiaceae. Mango.**

From the Philippines. Seeds presented by the Agricultural Attache, American Embassy, Manila. Received Mar. 4, 1955.

**224047 to 224061. GOSSYPIUM sp. Malvaceae.**

From Japan. Seeds presented by Anderson, Clayton & Co.'s Agency, Osaka. Received Mar. 8, 1955.

224047. 'Kanno No. 1'. 224055. 'Chugoku No. 18'.

224048. Wild. 224056. 'Kanto No. 26'.

224049. U.S.A. selection. 224057. 'Chugoku No. 17'.

224050. 'Miss-Del'. 224058. 'Chugoku No. 1'.

224051. 'Cook'. 224059. 'Kanto No. 30'.

224052. 'Coker'. 224060. 'Shiso'.

224053. 'Chudai'. 224061. 'Naganapree'.

224054. 'Filistani'.

**224062 and 224063. NICOTIANA EXCELSIOR J. M. Black Solanaceae.**

**Tobacco.**

From Australia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received Mar. 8, 1955.

224062. T.S. 50. Mount Magnet, Western Australia.

224063. T.S. 72. Everard Park, South Australia.

**224064. APIUM PANUL (DC.) Gay Apiaceae.**

From Chile. Seeds presented by Professor Gilberto Montero O., Temuco, through the American Embassy, Santiago. Received Mar. 8, 1955.

**224065 to 224067. SOLANUM TUBEROSUM L. Solanaceae. Potato.**

From Costa Rica. Tubers presented by the Inter-American Institute of Agricultural Sciences, Turrialba. Received Mar. 8, 1955.

224065. 'Harford'.

224066. 'Rosanel'.

224067. 'Ticanel'.

**224068. HORDEUM sp. Poaceae.**

From Germany. Seeds presented by the Bayerische Warenvermittlung Landwirtschaftlicher Genossenschaften, A. G., Munich. Received Mar. 8, 1955.

'Mullers Franken-Barley II'.

**224069 and 224070. AVENA SATIVA L. Poaceae. Common oats.**

From Sweden. Seeds presented by W. Weibull AB, Orginalutsaden, Landskrona. Received Mar. 8, 1955.

224069. 'Weibull's original Bamboo II'.

224070. 'Weibull's No. 16004'.

**224071. COFFEA ARABICA L. Rubiaceae Arabian coffee.**

From Colombia. Seeds presented by the National Federation of Coffee Growers Research Station, Chinchina. Received Mar. 8, 1955.

'Bourbon'. From a tree listed as A-R-MAC, apparently resistant to *Ceratostomella* sp. Despite inoculation with this fungus in February, 1951, the mother tree still resists the infection and the symptoms have advanced only a few centimeters from the point of inoculation.

**224072. INCARVILLEA GRANDIFLORA Bur. & Franch. Bignoniaceae. Bigflower incarvillea.**

From Sweden. Seeds presented by the Universitetes Botaniska Tradgarden, Uppsala. Received Mar. 10, 1955.

**224073. DIGITALIS sp. Scrophulariaceae.**

From Colombia. Seeds presented by the Rockefeller Foundation, Bogota. Received Mar. 8, 1955.

Collected near Usme.

**224074. ELEOCHARIS DULCIS (Burm. f.) Trin. Cyperaceae. Matai.**

From the Philippines. Corms presented by the Central Experiment Station, Laguna. Received Mar. 9, 1955.

Collected from the shores of Lake Luok near Castillejoe, Zambales Province.

**224075. VICIA GRAMINEA J. E. Sm. Fabaceae. Vetch.**

From Argentina. Seeds presented by the Instituto de Fitotecnica, Buenos Aires. Received Mar. 10, 1955.

SD 55-16. Castelar, Buenos Aires Province.

**224076 and 224077.**

From Pakistan. Seeds presented by the Divisional Forest Officer, Nowshera, North-west Frontier Province. Received Mar. 10, 1955.

**224076. CEDRUS DEODARA (Lamb.) Loud. Pinaceae. Deodar cedar.**

**224077. PINUS ROXBURGHII Sargent Pinaceae. Pine.**

'Chir'.

**224078 to 224080. PRUNUS AVIUM L. Amygdalaceae. Sweet cherry.**

From Great Britain. Scions presented by the East Malling Research Station, Maidstone, Kent, England. Received Mar. 10, 1955.

**224078.** 'Amber 4'.

**224079.** 'Gugne d'Annonay'.

**224080.** 'Merton Glory' M. 503.

**224081 and 224082. MALUS SYLVESTRIS Mill. Malaceae. Apple.**

From Great Britain. Scions presented by the National Fruit Trials, Wisley, Surrey, England. Received Mar. 10, 1955.

**224081.** 'Merton Prolific'. Fruit medium size, green turning to pale yellow with carmine flush; flesh creamy white; juicy, sweet; crop heavy.

**224082.** 'Merton Worcester'. Fruit medium size, creamy-yellow, nearly covered with a scarlet flush; flesh firm, crisp, juicy, sweet and aromatic. A free-cropping variety.

**224083. ZEA MAYS L. Poaceae Corn.**

From Michigan. Seeds at the Agricultural Experiment Station, East Lansing. Numbered Mar. 10, 1955.

An open-pollinated strain received from Albert Porritt, Alto, Mich., where it has been maintained for more than 50 years.



**224084. ZELKOVA CARPINIFOLIA (Pall.) Dipp. Ulmaceae.**

From Great Britain. Cuttings presented by the Royal Botanic Gardens, Kew, Surrey, England. Received Mar. 10, 1955.

**224085 to 224090. PYRUS COMMUNIS L. Malaceae****Pear.**

From Japan. Scions presented by the Faculty of Agriculture, Tokyo University, Hongo, Tokyo. Received Mar. 10, 1955.

**224085.** 'Ishiiwase'.**224088.** 'Tzu-li'.**224086.** 'Kikusiu'.**224089.** 'Yakumo'.**224087.** 'Shinseiki'.**224090.** 'Yarr-li'.**224091. SANSEVIERIA sp. Liliaceae.**

From Costa Rica. Cuttings collected by E. G. Nelson, Field Crops Research Branch, Beltsville, Md. Received Apr. 5, 1955.

**224092. IRIS sp. Iridaceae.**

From Japan. Rhizomes presented by Max H. James, Higainoto, Nara-Ken. Received Apr. 6, 1955.

**224093. SANSEVIERIA TRIFASCIATA Prain Liliaceae.**

From Guatemala. Cutting collected by E. G. Nelson, Field Crops Research Branch, Beltsville, Md. Received Apr. 6, 1955.

Collected near Managua.

**224094. GOSSYPIMUM sp. Malvaceae.****Cotton.**

From the Anglo-Egyptian Sudan. Seeds obtained through the Cotton & Cordage Fibers Branch, Crops Research Division, Beltsville, Md. Received Apr. 6, 1955.

**224095. RAUVOLFIA CAFFRA Sond. Apocynaceae.****Devilpepper.**

From the Belgian Congo. Cuttings presented by the Institut National pour l'Etude Agronomique du Congo Belge, Keyberg. Received Apr. 6, 1955.

**224096. RAUVOLFIA VERTICILLATA (Lour.) Baill.****Devilpepper.**

From Mexico. Plant presented by the Agricultural Attache, American Embassy, Mexico City. Received Mar. 11, 1955.

**224097 to 224127. RHODODENDRON × KOSTERIANUM Schneid.****Ericaceae.****Koster azalea.**

From Great Britain. Plants purchased from G. Reuthe Limited, Keston, Kent, England. Received Mar. 11, 1955.

**224097 and 224098. Exbury hybrids.****224097.** 'Kipps'.**224098.** 'Oxydol'.**224099 to 224109. Ghent hybrids.****224099.** 'Anna Louise'.**224105.** 'Ignea Nova'.**224100.** 'Beaute Celeste'.**224106.** 'Nancy Waterer'.**224101.** 'Bouquet de Flore'.**224107.** 'Pallas'.**224102.** 'Coccinea Speciosa'.**224108.** 'Sang de Genthruge'.**224103.** 'Fanny'.**224109.** 'Unique'.**224104.** 'Gloria Mundi'.**224110 to 224122. (*R. molle* × *sinense*) × *R. molle*.**



## 224097 to 224127—Continued

## 224110 to 224122—Continued

- |                            |                                   |
|----------------------------|-----------------------------------|
| 224110. 'Babeuff'.         | 224117. 'Hortulanus Witte'.       |
| 224111. 'Comte de Gomer'.  | 224118. 'Koster's Brilliant Red'. |
| 224112. 'Comte de Quincy'. | 224119. 'Lemonora'.               |
| 224113. 'Dr. Leon Vignes'. | 224120. 'Multatuli'.              |
| 224114. 'Dr. M. Oosthoek'. | 224121. 'Prof. Donders'.          |
| 224115. 'Floradora'.       | 224122. 'W. E. Gumbleton'.        |
| 224116. 'Hamlet'.          |                                   |

## 224123 to 224127. Occidentale hybrids.

- |                         |                    |
|-------------------------|--------------------|
| 224123. 'Exquisita'.    | 224126. 'Rosea'.   |
| 224124. 'Irene Koster'. | 224127. 'Superba'. |
| 224125. 'Magnifica'.    |                    |

## 224128 to 224153.

From the Union of South Africa. Clones collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Mar. 11, 1955.

Collected Mar. 1 to 3, 1955.

224128 and 224129. *CYNODON DACTYLON* (L.) Pers. Poaceae. **Bermudagrass.**

224128. Col. No. 4. Rietondale Station, Pretoria, Transvaal. Plant tall, leafy.  
224129. Col. No. 4a.

224130. *DIGITARIA SCALARUM* (Schweinf.) Chiov. Poaceae.

Col. No. 5. Rietondale Station; originally from Marsabit, Kenya. A dense, spreading grass.

224131. *CYNODON DACTYLON* (L.) Pers. Poaceae. **Bermudagrass.**

Col. No. 6. Rietondale Station. Grass tall; stems and leaves fine.

224132. *DIGITARIA* sp. Poaceae.

Col. No. 7. Rietondale Station; originally from Eldoret, Kenya.

224133. *ACROCERAS MACRUM* Stapf Poaceae.

Col. No. 8. Rietondale Station. Plant 3 feet high.

224134. *DIGITARIA SCALARUM* (Schweinf.) Chiov. Poaceae.

Col. No. 9. Rietondale Station. Good grazing type.

224135. *PENNISETUM UNISSETUM* (Nees) Benth. Poaceae.

Col. No. 10. Rietondale Station. Plant 3 feet high.

224136. *PENNISETUM* sp.

Col. No. 11. Rietondale Station; originally from Eastern Africa. Plant to 6 feet high.

224137. *DIGITARIA* sp. Poaceae.

Col. No. 12. Rietondale Station; originally from the Kalahari Desert.

224138. *DIGITARIA SCALARUM* (Schweinf.) Chiov.

Col. No. 13. Rietondale Station. Stems and leaves fine.

224139. *CYNODON* sp. Poaceae.

Col. No. 14. 'Schaapplaas'. Pretoria Botanic Garden. Dense sod forming.

224140. *CYNODON* sp.

Col. No. 15. 'Reitz'. Pretoria Botanic Garden. Lawngrass.

**224128 to 224153—Continued****224141.** *CYNODON* sp.

Col. No. 16. 'Harrismith Kweek'. Pretoria Botanic Garden.

**224142.** *CYNODON* sp.

Col. No. 17. Pretoria Botanic Garden. Tall; grazing type.

**224143.** *CYNODON DACTYLON* (L.) Pers.**Bermudagrass.**

Col. No. 18. Pretoria Botanic Garden. Grass rapid spreading; rhizomes long.

**224144.** *CYNODON* sp.

Col. No. 19. Eight miles from Pretoria. Grass tall; rhizomes long.

**224145.** *CYNODON* sp.

Col. No. 20. 'Schaapplas'. Frankenwald, Johannesburg. Dense turf.

**224146.** *CYNODON* sp.

Col. No. 21. 'Elliott'. Frankenwald, Johannesburg. Lawngrass.

**224147.** *CYNODON* sp.

Col. No. 22. 'Royal Cape'. Frankenwald, Johannesburg. Very hardy lawn-grass.

**224148.** *CYNODON* sp.

Col. No. 23. Frankenwald, Johannesburg. A medium to coarse lawngrass.

**224149.** *CYNODON DACTYLON* (L.) Pers.**Bermudagrass.**

Col. No. 24. 'Hall's Selection'. Frankenwald, Johannesburg. Popular lawn-grass.

**224150.** *DIGITARIA SWAZILANDENSIS* Stent Poaceae.

Col. No. 25. Frankenwald, Johannesburg. Fine lawngrass.

**224151.** *CYNODON* sp. Poaceae.

Col. No. 26. Frankenwald, Johannesburg. Compact and rapid sodding.

**224152.** *CYNODON* sp.

Col. No. 27. Frankenwald, Johannesburg. To 3 feet high; stolons heavy.

**224153.** (Undetermined.) Poaceae.

Col. No. 27 a. Pretoria.

**224154. SOLANUM TUBEROSUM L. Solanaceae.****Potato.**

From Mexico. Tubers collected by D. S. Correll, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Mar. 15, 1955.

Col. No. 5. Market, San Cristobal, Chiapas. Mar. 4, 1955. Tubers about 1.5 cm. in diameter.

**224155 to 224181.**

From Africa. Seeds presented by the Empire Cotton Growing Corporation, London. Received March 11, 1955.

**224155 to 224169.** From Uganda.**224155 to 224168.** *GOSSYPIUM HIRSUTUM* L. Malvaceae.**Upland cotton.****224155.** 'Albar 36'.**224162.** 'Albar 367'.**224156.** 'Albar 49S'.**224163.** 'Albar 368'.**224157.** 'Albar 51'.**224164.** C(50) 20.**224158.** 'Albar 312'.**224165.** MU8 × BP 52<sup>2</sup>. A. 618.**224159.** 'Albar 316'.**224166.** MU8 × BP 52<sup>2</sup>. A. 619.**224160.** 'Albar 318'.**224167.** MU8 × BP 52<sup>2</sup>. A. 7233.**224161.** 'Albar 320'.**224168.** MU8 × BP 52<sup>2</sup>. A. 7262.

**224155 to 224181—Continued****224155 to 224169—Continued**

**224169.** *THESPIESIA LAMPAS* (Cav.) Dalz. & Gibs. Malvaceae.

**224170 to 224181.** From the Anglo-Egyptian Sudan.

**224170 to 224175.** *GOSSYPIUM BARBADENSE* L. Malvaceae. **Sea-island cotton.**

**224170.** BAR 14/9. **224173.** BAR 14/19.

**224171.** BAR 14/11. **224174.** BAR 14/20.

**224172.** BAR 14/16. **224175.** BAR 14/31.

**224176.** *GOSSYPIUM HERBACEUM* L. **Levant cotton.**  
'Africanum HA 3'.

**224177 to 224179.** *GOSSYPIUM HIRSUTUM* L. **Upland cotton.**

**224177.** BAR 11/1.

**224178.** 'Kapas Purão'.

**224179.** Mu 8 b.

**224180.** *GOSSYPIUM PUNCTATUM* Schum. & Thonn. **Cotton.**

19b.8.7. Originally from French West Africa.

**224181.** *GOSSYPIUM* sp.

19b.8.1. From Gambia.

**224182.** *DIOSCOREA SPICULIFLORA* Hemsl. Dioscoreaceae. **Yam.**

From Mexico. Collected by D. S. Correll, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Mar. 11, 1955.

No. 1. Rancho de Esperanza, 2 km. northeast of Chiapa, Camino Nacional, Tuxtla Gutierrez San Cristobal, Chiapas, Mar. 3, 1955.

**224183.** (Undetermined).

From Mexico. Plant collected by D. S. Correll, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Mar. 11, 1955.

No. 7a. Soap plant. From market, San Cristobal, Chiapas. Mar. 4, 1955.

**224184 and 224185.**

From Puerto Rico. Seeds presented by the Agricultural Experiment Station, Rio Piedras. Received Mar. 15, 1955.

**224184.** *COFFEA ARABICA* var. *COLUMNARIS* Cramer Rubiaceae. **Coffee.**

**224185.** *COFFEA ARABICA* L. **Arabian coffee.**  
'Puerto Rico'.

**224186 to 224195.**

From Great Britain. Trees purchased from Hillier & Sons, Winchester, England. Received Mar. 15, 1955.

**224186.** *ACER NEGUNDO* L. Aceraceae. **Boxelder.**  
'Aureo-variagata'.

**224187.** *ACER PSEUDOPLATANUS* f. *CORSTORPHINENSE* Schwer. **Maple.**

**224188.** × *CRATAEGOMESPILUS DARDARI* Simon-Louis Malaceae.

**224189.** *FRAXINUS ANGUSTIFOLIA* var. *LENTISCIFOLIA* (Desf.) Henry Oleaceae. **Narrowleaf ash.**

**224190.** *FRAXINUS PAXIANA* Lingelsch. **Pax ash.**

**224191.** *FRAXINUS XANTHOXYLOIDES* (G. Don) DC. **Afghan ash.**

**224186 to 224195—Continued**

**224192.** *MALUS HUPEHENSIS* (Pamp.) Rehd. Malaceae.  
'Rosea'.

**224193.** *MALUS TRILOBATA* (Labill.) Schneid.

**224194.** *PRUNUS SUBHIRTELLA* Miq. Amygdalaceae.  
'Rosea'.

**Higan cherry.**

**224195.** *PYRUS SALICIFOLIA* Pall. Malaceae.  
'Pendula'.

**Willow-leaved pear.**

**224196.** *PYRUS COMMUNIS* L. Malaceae.

**Common pear.**

From Japan. Scions presented by the Ministry of Agriculture and Forestry, Tokyo.  
Received Mar. 15, 1955.

'Nijusseki'.

**224197 and 224198.** *MALUS SYLVESTRIS* Mill. Malaceae.

**Apple.**

From Sweden. Scions presented by the Balsgard Fruit Breeding Institute, Fjalkestad.  
Received Mar. 15, 1955.

**224197.** 'Gul Richard' (gul-yellow). Tree seldom grown; ripening in December; fruits green-yellow to green-white; flavor fine and mild. In Germany it is known as 'Gelber Richard', originally from Mecklenburg; probably over 100 years old. Very susceptible to apple scab and spray damage.

**224198.** 'Oretorp Renett'. Local variety; fruits keep well, ripening sound and late; resistant to scab. Originally from northeastern Scania, southern Sweden; parentage and age unknown; used in several crosses at Balsgard.

**224199 to 224210.**

From Great Britain. Trees purchased from Hillier & Sons, Winchester, England.  
Received Mar. 15, 1955.

**224199.** *ACER ERIANTHUM* Schwer. Aceraceae.

**Maple.**

**224200.** *ACER LAXIFLORUM* Pax. Aceraceae.

**Maple.**

**224201.** *ACER MICRANTHUM* Sieb. & Zucc.

**224202 and 224203.** *ACER PALMATUM* Thunb.

**Japanese maple.**

**224202.** 'Argenteo-variagata'.

**224203.** 'Flavescens'.

**224204.** *FRAXINUS EXCELSIOR* L. Oleaceae.

**European ash.**

'Aurea Pendula'.

**224205.** *MAHONIA AQUIFOLIUM* (Pursh) Nutt. Berberidaceae.

**Oregongrape.**

'Moseri'.

**224206.** *PHYLLOSTACHYS NIGRA* (Lodd.) Munro Poaceae.

**Bamboo.**

**224207.** *PRUNUS FRUTICOSA* Pall. Amygdalaceae.

**European dwarf cherry.**

**224208.** *PRUNUS* sp.

'Okame'.

**224209.** *SALIX* sp. Salicaceae.

**224210.** *ULMUS PROCERA* var. *VIMINALIS* Salisb. Ulmaceae.

**Elm.**

'Variegata'.

**224211 to 224216.** *VITIS VINIFERA* L. Vitaceae.

**European grape.**

From Italy. Cuttings presented by the Stazione di Viticoltura, Conegliano. Received Mar. 11, 1955.

**224211.** 'Coudere 21'.

**224214.** 'Seyve-Villard 18118'.

**224212.** 'Coudere 22'.

**224215.** 'Seyve-Villard 12417'.

**224213.** 'Seibel 4614'.

**224216.** 'Terzi 108. 6'.



**224217. PYRUS COMMUNIS L. Malaceae. Pear.**  
 From Sweden. Scions presented by Dr. Frederik Nilsson, Alnarp, Akarp. Received Mar. 16, 1955.

'Charneu' × 'Herzogin Elsa'.

**224218 to 224267. BETA VULGARIS L. Chenopodiaceae. Beet.**  
 From the Netherlands. Seeds presented by the Instituut voor rationele Suiker-productie, Bergen Op Zoom. Received Mar. 17, 1955.

224218. 55 M 1.	224243. 55067.
224219. 55 M 2.	224244. 55070.
224220. 55 M 3.	224245. 55072.
224221. 55 M 5.	224246. 55075.
224222. 55 M 6.	224247. 55100.
224223. 55 M 7.	224248. 55101.
224224. 55 M 8.	224249. 55124.
224225. 55 M 9.	224250. 55126.
224226. 55 M 11.	224251. 55131.
224227. 55 M 14.	224252. 55138.
224228. 55 M 16.	224253. 55139.
224229. 55 M 17.	224254. 55142.
224230. 55 M 18.	224255. 55146.
224231. 55 M 20.	224256. 55161.
224232. 55 M 21.	224257. 55162.
224233. 55 M 22.	224258. 55189.
224234. 55 M 24.	224259. 55216.
224235. 55 M 27.	224260. 55228.
224236. 55 M 28.	224261. 55252.
224237. 55013.	224262. 55316.
224238. 55022.	224263. 55317.
224239. 55023.	224264. 55319.
224240. 55032.	224265. 55321.
224241. 55035.	224266. 55405.
224242. 55046.	224267. 55409.

**224268 to 224276. GLYCINE MAX (L.) Merr. Fabaceae. Soybean.**  
 From Japan. Seeds presented by the Laboratory for Plant Breeding, Hyogo Agricultural College, Hyogo-ken. Received Mar. 17, 1955.

224268. 'Asomasari'.	224273. 'Ohita Ahidaizu-No. 2'.
224269. 'Chasengoku'.	224274. 'Shinmeziro'.
224270. 'Howgyoku'.	224275. 'Tamamusume'.
224271. 'Nohrin—No. 3'.	224276. 'Ugodaizu'.
224272. 'Ohdate—No. 1'.	

**224277 to 224279.**

From Germany. Seeds presented by Anheuser-Busch Inc., St. Louis, Mo. Received Mar. 17, 1955.

**224277. HORDEUM sp. Poaceae.**  
 'Ackerman's Donavia'.

**224277 to 224279—Continued**224278. *HORDEUM* sp.

'Ackerman's Tsaria'.

224279. *HORDEUM* sp.

'SJ Cug's Franklin III'.

**224280 to 224299.**

From the Union of South Africa. Seeds presented by the College of Agriculture, Potchefstroom, Transvaal. Received Mar. 17, 1955. A collection of summer wheat.

224280 to 224285. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.

224280. 112/52. 224283. 150/52.

224281. 1275/2. 224284. 171/52.

224282. 134/52. 224285. 190/52.

224286 to 224299. *ZEA MAYS* L. Poaceae. Corn.

224286. 'Teopod 1'. 224294. Inbred A 281.

224287. 'Teopod 2'. 224295. Inbred A 377.

224288. 'Teopod 3'. 224296. Inbred A 377-1.

224289. 'Teopod 4'. 224297. Inbred A 377-2.

224290. 'Teopod 5'. 224298. Inbred A 377-2-1 53 ×  
7B-1482.224291. 'Teopod 6'. 224299. Inbred A 377-2-1 54 ×  
11B-1817.

224292. 'Teopod 8'.

224293. 'Teopod 10'.

**224300 to 224305.**

From Sweden. Seeds presented by Wilson H. Foote, Lund. Received Mar. 17, 1955.

224300 and 224301. *AVENA SATIVA* L. Poaceae. Common oats.

224300. 'Bambu II'.

224301. 'Flaminggold' × 'Bambu'.

224302. *HORDEUM* sp. Poaceae.

'Weibull's 5425'.

224303 to 224305. *TRIFOLIUM PRATENSE* L. Fabaceae.

Red clover.

224303. 'Weibull's R 28 9' (tetraploid).

224304. 'Essi' (tetraploid).

224305. 'Resistentia' (tetraploid).

224306. *MALUS SYLVESTRIS* Mill. Malaceae.

Apple.

From Sweden. Scions presented by Statens Tradgardsforsok, Alnarp. Received Mar. 17, 1955.

'Alfa 68'.

224307 to 224313. *FICUS CARICA* L. Moraceae.

Common fig.

From Algeria. Cuttings presented by the Service de L'Arboriculture, Gouvernement General de L'Algerie, Sidi-Aich.

224307. 'Albo'. 224311. 'Marseille'.

224308. 'Azendjar'. 224312. 'Tameriout'.

224309. 'Bourjassotte'. 224313. 'Taranimt'.

224310. 'Kennedy Castte'.

**224314. CYNODON sp. Poaceae.**

From the Union of South Africa. Stolons collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Mar. 17, 1955.

No. 54.

**224315 and 224316.**

From Mexico. Seeds presented by Dr. Jerzy Rzedowski, Instituto de Investigacion de Zonas Deserticas, San Luis Potosi. Received Mar. 18, 1955.

**224315. ZINNIA JUNIPERIFOLIA** A. Gray Asteraceae.

Sierra de Guadalcacer, east of Nuñez, San Luis Potosi.

**224316. ZINNIA LINEARIS** Benth.

Sierra de San Miguelito, 20 km. southwest of city of San Luis Potosi.

**224317 to 224324. VITIS VINIFERA L. Vitaceae. European grape.**

From Italy. Cuttings presented by the Stazione Sperimentale di Viticoltura, Conegliano. Received Mar. 21, 1955.

**224317.** 'De Hero di St. Vallier'. **224321.** 'Seibel Blanco Co.' 8343.

**224318.** 'La Pierrelle'. **224322.** 'Seibel Blanco Co.' 10,173.

**224319.** 'Mosc. di St. Vallier'. **224323.** 'Seibel Nero' 5455.

**224320.** 'Seibel Blanco Co.' 5178. **224324.** 'Seibel Nero' 10,096.

**224325. CITRUS AURANTIFOLIA (Christm.) Swingle Rutaceae. Lime.**

From Morocco. Seeds presented by the Institut des Fruits et Agrumes Coloniaux, Rabat. Received Mar. 21, 1955.

'Lime de Ra'at'. Spineless.

**224326 to 224397.**

From Great Britain. Plants presented by the Sunningdale Nurseries, Windlesham, Surrey, England. Received Mar. 22, 1955.

**224326 to 224362. RHODODENDRON × KOSTERIANUM** Schneid. Ericaceae.

**Azalea.**

- |  |   |
|--|---|
| <b>224326.</b> 'Alma Tadema'.          | <b>224342.</b> 'Firebrand'.             |
| <b>224327.</b> 'Alphonse Lavallee'.    | <b>224343.</b> 'Fireflame'.             |
| <b>224328.</b> 'Anthony Koster'.       | <b>224344.</b> 'Garten Inspektor Ohrt'. |
| <b>224329.</b> 'Betsy de Bruin'.       | <b>224345.</b> 'Hugo Koster'.           |
| <b>224330.</b> 'Bouquet Orange'.       | <b>224346.</b> 'Kosters Deep Red'.      |
| <b>224331.</b> 'Christopher Wren'.     | <b>224347.</b> 'Lemonora'.              |
| <b>224332.</b> 'Colonel F. R. Durham'. | <b>224348.</b> 'Marconi'.               |
| <b>224333.</b> 'Comte de Papadopoli'.  | <b>224349.</b> 'Mrs. A. E. Endtz'.      |
| <b>224334.</b> 'Comte de Quincey'.     | <b>224350.</b> 'Mrs. C. C. Page'.       |
| <b>224335.</b> 'Director Moerlands'.   | <b>224351.</b> 'Mrs. L. J. Endtz'.      |
| <b>224336.</b> 'Dr. Reichenbach'.      | <b>224352.</b> 'Mrs. Peter Koster'.     |
| <b>224337.</b> 'Edison'.               | <b>224353.</b> 'Multatuli'.             |
| <b>224338.</b> 'Elizabeth'.            | <b>224354.</b> 'Princess Juliana'.      |
| <b>224339.</b> 'Elizabeth Cuthbert'.   | <b>224355.</b> 'Professor M. Koster'.   |
| <b>224340.</b> 'Emile Liebig'.         | <b>224356.</b> 'Queen Emma'.            |
| <b>224341.</b> 'Esmeralda'.            | <b>224357.</b> 'Salmon Queen'.          |
|  | <b>224358.</b> 'Snowdrift'.             |

**224326 to 224397—Continued****224326 to 224362—Continued**

224359. 'Southgate Wonder'.

224361. 'Spinosa'.

224360. 'Speks Brilliant'.

224362. 'W. E. Grumbleton'.

**224363 to 224393. RHODODENDRON (hybrids).**

'Ghent' × 'Rustica Flore Pleno'

224363. 'Adolphe'.

224379. 'Graf Alfred von Nipperg'.

224364. 'Agatha'.

224380. 'Heroine Plena'.

224365. 'Altaclarensis'.

224381. 'Il Tasso'.

224366. 'Ariadne'.

224382. 'Joseph Baumann'.

224367. 'Bijou de Amateur'.

224383. 'Josephine Klinger'.

224368. 'Byron'.

224384. 'Mrs. H. White'.

224369. 'Chieftan'.

224385. 'Norma'.

224370. 'Coccinea grandiflora'.

224386. 'Nosegay'.

224371. 'Coccinea major'.

224387. 'Oscar'.

224372. 'Crimson King'.

224388. 'Phidias'.

224373. 'Cuprea pulchella'.

224389. 'Phoebe'.

224374. 'Daviesii'.

224390. 'Prince Henry des Bays Bas'.

224375. 'Decus Hortorum'.

224391. 'Rembrandt'.

224376. 'Electa'.

224392. 'Taylors Red'.

224377. 'Emma'.

224393. 'Vulcan'.

224378. 'Gen. Trauff'.

**224394 to 224397. RHODODENDRON OCCIDENTALE (hybrids).**

224394. 'Delicatissima'.

224396. 'Graciosa'.

224395. 'Exquisita'.

224397. 'Rosea'.

**224398 to 224404. SACCHARUM (hybrids). Poaceae. Sugarcane.**

From Taiwan. Cuttings received from an unknown donor. Received Mar. 22, 1955.

224398. 39-1928.

224402. 39-1952.

224399. 39-1931.

224403. 39-1969.

224400. 39-1939.

224404. 39-1991.

224401. 39-1940.

**224405 to 224452.**

From Washington. Seeds at the Regional Plant Introduction Station, Pullman. Numbered Mar. 23, 1955. From Paul G. Smith, University of California, Berkeley, Calif. Original sources as indicated.

**224405 to 224439. CAPSICUM FRUTESCENS L. Solanaceae.****Redpepper.**

224405. No. 1534. Mexico.

224413. No. 1559. Trinidad.

224406. No. 1542. Mexico.

224414. No. 1570. Costa Rica.

224407. No. 1544. Mexico.

224415. No. 1572. Costa Rica.

224408. No. 1546. Mexico.

224416. No. 1574. Costa Rica.

224409. No. 1548. Mexico.

224417. No. 1578. Nicaragua.

224410. No. 1549. Mexico.

224418. No. 1579. Nicaragua.

224411. No. 1552. Mexico.

224419. No. 1580. Nicaragua.

224412. No. 1555. Bolivia.

224420. No. 1581. Nicaragua.



**224405 to 224452—Continued****224405 to 224439—Continued**

224421. No. 1582. Nicaragua.	224431. No. 1642. Costa Rica.
224422. No. 1584. Nicaragua.	224432. No. 1645. Guatemala.
224423. No. 1588. Costa Rica.	224433. No. 1653. Guatemala.
224424. No. 1604. Costa Rica.	224434. No. 1654. Guatemala.
224425. No. 1613. Costa Rica.	224435. No. 1657-2. Cuba.
224426. No. 1615. Costa Rica.	224436. No. 1710. Mexico.
224427. No. 1618. Ecuador.	224437. No. 1712. Mexico.
224428. No. 1625. Costa Rica.	224438. No. 1713. Mexico.
224429. No. 1639. Guatemala.	224439. No. 1540. Nicaragua.

**224440. CAPSICUM PENDULUM Willd. Solanaceae.**

No. 1595. Costa Rica.

**224441. CAPSICUM sp.**

No. 1496. Venezuela.

**224442. CAPSICUM sp.**

No. 1537. Nicaragua.

**224443. CAPSICUM sp.**

No. 1541. Bolivia.

**224444. CAPSICUM sp.**

No. 1554. Bolivia.

**224445. CAPSICUM sp.**

No. 1556. Bolivia.

**224446. CAPSICUM sp.**

No. 1575. Costa Rica.

**224447. CAPSICUM sp.**

No. 1601. Costa Rica.

**224448. CAPSICUM sp.**

No. 1606. Costa Rica.

**224449. CAPSICUM sp.**

No. 1633. Peru.

**224450. CAPSICUM sp.**

No. 1646. Guatemala.

**224451. CAPSICUM sp.**

No. 1650. Guatemala.

**224452. CAPSICUM sp.**

No. 1655. Guatemala.

**224453 and 224454. RAUVOLFIA SELLOWII Muell.-Arg. Apocynaceae.****Devilpepper.**

From Brazil. Presented by the Instituto Agronomico do Estado de São Paulo, Campinas, São Paulo. Received Mar. 23, 1955.

224453. Cuttings.

224454. Seeds.

**224455. MALUS SYLVESTRIS Mill. Malaceae.****Apple.**

From Germany. Scions presented by Christian Fey, Meckenheim (Köln). Received Mar. 23, 1955.

'James Grieve'.

**224456. GOSSYPIUM (hybrid). Malvaceae.****Cotton.**

From Tanganyika. Seeds presented by the Empire Cotton Growing Corporation, London, England. Received Mar. 23, 1955.

Grown at Ukiriguvu.

**224457 to 224463. SOLANUM TUBEROSUM L. Solanaceae.****Potato.**

From Sweden. Tubers presented by the Swedish Seed Association, Svalof. Received Mar. 24, 1955.

224457. 'Anna'.

224461. L 54/58.

224458. 'Elsa'.

224462. L 54/59.

224459. 'Eva'.

224463. L 54/60.

224460. 'Imperia'.

**224464 to 224511. LUPINUS LUTEUS L. Fabaceae.****European yellow lupine.**

From the Netherlands. Seeds presented by the Stichting voor Plantenveredeling Wageningen. Received Mar. 24, 1955.

224464. 7 7/52.

224489. 1026 842/52.

224465. 12 kr.56.

224490. 1035 V 386/52.

224466. 16 kr.62.

224491. 1052 1000/52.

224467. 17 kr.66.

224492. 1077 542/52.

224468. 18 kr.67.

224493. 1079 542/52.

224469. 41 44/52.

224494. 1083 550/52.

224470. 51 kr.110.

224495. 1086 567/52.

224471. 58 kr.125.

224496. 1124 615/52.

224472. 77 89/52.

224497. 1165 713/52.

224473. 228 kr.1972.

224498. 1166 713/52.

224474. 229 kr.1976.

224499. 1219 710/52.

224475. 276 kr.281.

224500. 1301 4/52.

224476. 589 231/52.

224501. 1308 H 32/52.

224477. 602 238/52.

224502. 1316 H 48/52.

224478. 606 241/52.

224503. 1415 B 1581/52.

224479. 610 242/52.

224504. 1417 B 1518/52.

224480. 625 253/52.

224505. 1432 NL 71/52.

224481. 626 253/52.

224506. 1796 1231/52.

224482. 627 251/52.

224507. 1799 1233/52.

224483. 771 403/52.

224508. 1814 1239/52.

224484. 772 404/52.

224509. 1823 1283/52.

224485. 795 447/52.

224510. 1886.

224486. 798 449/52.

224511. 1893.

224487. 1021 831/52.

224488. 1025 837/52.

**224512 to 224514. ILEX OPACA Ait. Aquifoliaceae. American holly.**

From Maryland. Plants growing at the United States Plant Introduction Station, Glenn Dale. Numbered Mar. 28, 1955.

Originally presented by Dr. F. G. Meyer, Missouri Botanic Garden, St. Louis, Mo. Feb. 24, 1954.

**224512.** 'Meyer No. 3555'. From Stoddard County, Mo.

**224513.** 'Meyer No. 3555-C'. From Stoddard County, Mo.

**224514.** 'Meyer No. 3557'. From Piggot, Ark.

**224515 and 224516.**

From Japan. Plants presented by the Shikoku Agricultural Experiment Station, Kagawa, Shikoku. Received Mar. 29, 1955.

**224515.** RUBUS VERNUS Focke Rosaceae.

**224516.** RUBUS SPECTABILIS var. VERNUS Makino

**224517 to 224520. COFFEA ARABICA L. Rubiaceae. Arabian coffee.**

From Tanganvika. Seeds presented by the Coffee Research Station, Lyamungu, Moshi. Received Mar. 29, 1955.

**224517.** F. 840(II).

**224519.** H.66.

**224518.** H.1.

**224520.** 'Geisha'.

**224521 to 224524. PRUNUS AVIUM L. Amygdalaceae. Sweet cherry.**

From Canada. Scions presented by the Dominion Experimental Farm, Summerland, British Columbia. Received Mar. 29, 1955.

**224521.** 'Sam'.

**224523.** 'Star'.

**224522.** 'Sparkle'.

**224524.** 'Sue'.

**224525 and 224526.**

From Japan. Seeds presented by the University of Tokyo, Tokyo. Received Mar. 30, 1955.

**224525.** ILEX MICROCOCCA Maxim. Aquifoliaceae.

**Holly.**

**224526.** ILEX ROTUNDA Thunb.

**Holly.**

**224527 and 224528. VERNONIA ANTHELMINTICA Willd. Asteraceae. Kinkaoil ironweed.**

From India. Seeds presented by the Indian Agricultural Research Institute, New Delhi. Received Mar. 29, 1955.

**224527.** L.W. 939. From the Drug Research Laboratory, Jammu & Kashmir.

**224528.** From Solan (Simla Hills).

**224529 to 224541 SACCHARUM (hybrids) Poaceae. Sugarcane.**

From Indonesia. Cuttings presented by the Java Sugar Experiment Station, Pasuruan, Java. Received Mar. 29, 1955.

**224529.** 25 Oc 20 Kara-Kar-Awa (British Guiana).

**224530.** 30 Oc 15 Ketingan Tenggara.

**224531.** 24 Oc 63 Negros Purple.

**224532.** X Oc 22 Roppae Austr.

**224533.** 22 Oc 7 Tanimbar babor 2.

**224534.** 24 Oc 51 Teboe hitam Fort de Kock.

**224535.** 30 Oc 31 Teboe liti Oewis Tenggara.

**224536.** 25 Oc 15 Tofumapal (British Guiana).

**224537.** X Oc 11 Vulu Malakka S. W. M.

**224529 to 224541—Continued**

224538. 15 Oc 7 Woeloeng Sockodono.

224539. 30 Oc 22.

224540. 3067 P. O. J.

224541. 3077 P. O. J.

**224542 to 224546. VITIS RUPESTRIS Scheele Vitaceae. Grape.**

From France. Cuttings presented by the Ecole Nationale d'Agriculture de Montpellier, Montpellier (Herauld). Received Mar. 31, 1955.

224542. 'Violettes (Coudere)'.

224545. 'Mission'.

224543. 'de Forthworth'.

224546. 'Violet' (Richter).

224544. 'Metalleque'.

**224547 to 224553.**

From France. Scions presented by the Pepinieres G. Delbard, Malicorne per Commentary, (Allier). Received Mar. 31, 1955.

224547 to 224551. MALUS SYLVESTRIS Mill. Malaceae.

Apple.

224547. 'Boskoop Rouge'.

224550. 'Reine des Reinettes'.

224548. 'Calville Blanc'.

224551. 'Transparent de croncels'.

224549. 'Jeanne Hardy'.

224552 and 224553. PYRUS COMMUNIS L. Malaceae.

Common pear.

224552. 'Beurre Giffard'.

224553. 'Sucree Rosee' (Soucher 53-).

**224554 to 224563. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.**

From Iran. Seeds presented by the United States Operations Mission to Iran, Tehran. Received Mar. 31, 1955.

Collected near Ishfan.

'Kharbooseh'.

224554. No. 1.

224559. No. 6.

224555. No. 2.

224560. No. 7.

224556. No. 3.

224561. No. 8.

224557. No. 4.

224562. No. 9.

224558. No. 5.

224563. No. 10.

**224564. GOSSYPIUM ARBOREUM L. Malvaceae. Asiatic tree cotton.**

From Uganda. Seeds presented by the Empire Cotton Growing Corporation, London. England. Received Mar. 3, 1955.

Originally from Madagascar.

**224565. CAMELLIA SINENSIS (L.) Kuntze Theaceae. Tea.**

From Maryland. Seeds planted at the United States Plant Introduction Station, Glenn Dale. Numbered Apr. 4, 1955.

Originally from Gopalpur Tea Estate, Copalbagan, Jalpaiguri, India.

Obtained through the McCormick Spice Company, Inc., Baltimore, Md.

**224566 to 224570.**

From Southern Rhodesia. Clones collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 4, 1955.



**224566 to 224570—Continued**

**224566.** *CYNODON* sp. Poaceae.

Col. No. 124. Tobacco Research Station, Salisbury. Plant tall with slender stems, long stolons and rhizomes; few seed heads; does not fire seriously; disease resistant. A desirable grazing type.

**224567.** *CYNODON* sp.

Col. No. 126. Tobacco Research Station, 10 miles south of Salisbury. Mar. 21, 1955. Plants to 4 feet high; stems coarse; stolons 15 to 20 feet long. Used to prevent soil erosion and as a cover crop preceeding tobacco.

**224568.** *CYNODON* sp.

Col. No. 128. Tobacco Research Station, Salisbury. Mar. 21, 1955. Plants about 12 inches high, upright with some stolons; few seeds; fires to some extent.

**224569.** *CYNODON DACTYLON* (L.) Pers.

**Bermudagrass.**

Col. No. 129. Tobacco Research Station, Salisbury. Mar. 21, 1955. Fine-leaved, short; good sod type; spreads fairly rapidly.

**224570.** (Undetermined.)

Col. No. 127. Near Tobacco Research Station, Salisbury. Mar. 21, 1955. Plants about 12 inches high, vigorous; color dark green; no seed heads.

**224571 to 224597.**

From Ohio. Seeds at the Agricultural Experiment Station, Wooster. Numbered Apr. 4, 1955.

Varieties listed in Table V "Horticultural characters and reaction to two diseases of the *Lycopersicon* accessions in the North Central Region."

**224571 to 224579.** *LYCOPERSICON ESCULENTUM* Mill. Solanaceae.

**Tomato.**

**224571.** Wooster 521314; 'Lindstrom 2387-2-1-4'.

**224572.** Wooster 541200; 'Rick 2-100'.

**224573.** Wooster 541203; 'Rick LA55'.

**224574.** Wooster 541206; 'Butler'.

**224575.** Wooster 541208; 'Butler'.

**224576.** Wooster 541212; 'Jenkins 234'.

**224577.** Wooster 541214; 'Dennett AP5'.

**224578.** Wooster 541217; 'P. A. Young G 1071 b'.

**224579.** Wooster 541295; 'Butler'.

**224580.** *LYCOPERSICON* (hybrid).

**Tomato.**

(*L. esculentum* × *pimpinellifolium*)

'Bohn 79532'.

**224581 to 224597.** *LYCOPERSICON ESCULENTUM* Mill.

**Tomato.**

**224581.** Wooster 541270; 'Bohn, Danmark 5056'.

**224582.** Wooster 541271; 'Bohn, Danmark 5057'.

**224583.** Wooster 541272; 'Bohn, Danmark 5061'.

**224584.** Wooster 541273; 'Bohn, Danmark 5074'.

**224585.** Wooster 541274; 'Bohn, Waltham Forcing 5059'.

**224586.** Wooster 541275; 'Bohn, Waltham Forcing 5060'.

**224587.** Wooster 541276; 'Bohn, Waltham Forcing 5069'.

**224588.** Wooster 541277; 'Bohn, Waltham Forcing 5075'.

**224589.** Wooster 491330; PI 148720 × PI 79532.

**224590.** Wooster 531267; 'Rick 2-69'.

**224571 to 224597—Continued****224581 to 224597—Continued**

224591. Wooster 531268; 'Rick 2-171'.

224592. Wooster 531270; 'Rick 2-84'.

224593. Wooster 531271; 'Rick 2-137'.

224594. Wooster 531272; 'Rick 16-9'.

224595. Wooster 531273; 'Rick 2-185'.

224596. Wooster 531285; 'Bishop K-50'.

224597. Wooster 541251; 'Pollack 1025'.

**224598 COFFEA ARABICA L. Rubiaceae.****Arabian coffee.**

From Kenya. Seeds presented by the Coffee Research Station, Ruiru. Received Apr. 4, 1955.

Harvested from plots at Makuyu.

K-7.

**224599. DACTYLIS GLOMERATA var. HISPANICA (Roth) Duby Poaceae.**

From Israel. Seeds presented by the Department of Agronomy, University of Arizona, Tucson, Ariz. Received Apr. 4, 1955.

Collected near Ruhama.

**224600. PRUNUS AVIUM L. Amygdalaceae.****Sweet cherry.**

From Canada. Scions presented by the Dominion Experimental Station, Morden, Manitoba. Received Apr. 5, 1955.

'Coronation'.

**224601. POA PRATENSIS L. Poaceae.****Kentucky bluegrass.**

From Germany. Seeds presented by Dr. Hans Leichum, Frankfurt-am-Main. Received Apr. 5, 1955.

**224602 and 224603.**

From Israel. Seeds presented by the Agricultural Research Station, Rehovoth. Received Apr. 5, 1955.

**224602. PISTACIA X SAPORTAE Burnat. Anacardiaceae.**

Collected at Safad, Galilee.

**224603. SESAMUM INDICUM L. Pedaliaceae. Sesame.**

Local variety.

**224604. ORYZA SATIVA L. Poaceae: Rice.**

From India. Seeds presented by the Rice Specialist, Hyderabad, Deccan, India. Received Apr. 5, 1955.

'Shala'.

**224605. ORYZA SATIVA L. Poaceae: Rice.**

From Indonesia. Seeds presented by the Institute for Agricultural Research, Bogor. Received Apr. 5, 1955.

'Sigadis'.

**224606 to 224608. SECALE CEREALE L. Poaceae****Rye.**

From Argentina. Seeds presented by the Instituto de Fitotecnica, Ministerio de Agricultura, Buenos Aires. Received Apr. 5, 1955.

**224606. 'AC 1310-5/51'.****224607. 'AC 1628-4/54'.****224608. 'AC 1645-5/54'.**

**224609 to 224611. MALUS SYLVESTRIS Mill. Malaceae. Apple.**

From Finland. Scions presented by Dr. Toivo Rautavaara, Helsinki. Received Apr. 6, 1955.

224609. 'Gallen'.

224610. 'Huvitus'.

224611. 'Sokeri Miron'.

**224612. INGA sp. Mimosaceae.**

From Puerto Rico. Seeds presented by the Federal Experiment Station, Mayaguez. Received Apr. 6, 1955.

**224613. HORDEUM sp. Poaceae.**

From Germany. Seeds presented by Anheuser-Busch, Inc., St. Louis, Mo. Received Apr. 6, 1955.

'Heines Haisa II'.

**224614. BROMUS WILLDENOWII Kunth Poaceae. Rescuegrass.**

From Uruguay. Seeds presented by the Instituto Fitotecnica La Estanzuela, Colonia. Received Apr. 6, 1955.

L. E. 157/49.

**224615 to 224622.**

From Sweden. Seeds presented by the Weibull Plant Breeding Institute, Landskrona. Received Apr. 7, 1955.

224615 and 224616. PHELEUM PRATENSE L. Poaceae. Timothy

224615. 'Weibull's Original Kampe II'.

224616. T 41.

224617. TRIFOLIUM HYBRIDUM L. Fabaceae. Alsike clover.

'Weibull's Original Tetraploid Alsike'.

224618 to 224620. TRIFOLIUM PRATENSE L. Red clover.

224618. 'Weibull's Original Resistentia'.

224619. 'R II Tetraploid'.

224620. 'R 28 Tetraploid'.

224621 and 224622. TRIFOLIUM REPENS L. Whiteclover.

224621. 'Weibull's Original Nora'.

224622. 'Weibull's Original Robusta'.

**224623. MEDICAGO SATIVA L. Fabaceae. Alfalfa.**

From France. Seeds presented by A. Rousset & Fils, Chatendum, Paris. Received Apr. 7, 1955.

'Lucerne Socheville'.

**224624 and 224625. LALLEMANTIA IBERICA (Bieb.) Fisch. & Mey. Menthaceae.**

From Germany. Seeds presented by the Institut vor Kulturpflanzenforschung, Gatersleben. Received Apr. 7, 1955.

224624. LaL 1/54. Boranic Garden, Munich.

224625. LaL 2/53. Botanic Garden, Rostock.

**224626 to 224630. ORYZA SATIVA L. Poaceae. Rice.**

From Thailand. Seeds presented by the Rice Department, Bangkok. Received Apr. 7, 1955.

**224626 to 224630—Continued**

- |                |                |
|----------------|----------------|
| 224626. No. 1. | 224629. No. 4. |
| 224627. No. 2. | 224630. No. 5. |
| 224628. No. 3. |                |

**224631 to 224646.**

From Morocco. Seeds presented by the Institut Scientifique Cherifien, Rabat.  
Received Apr. 8, 1955.

224631. *ANTHYLLIS HAMOSA* Desf. Fabaceae.

No. 1654.

224632. *ANTHYLLIS VULNERARIA* L.

No. 1645.

224633. *ERAGROSTIS ATROVIRENS* var. *HESPERIDUM* Emb. & Maire Poaceae.

No. 242.

224634. *LATHYRUS ARTICULATUS* L. Fabaceae.

Peavine.

No. 1809.

224635. *LOTUS MAROCCANUS* Ball Fabaceae.

Trefoil.

No. 1658.

224636. *LUPINUS PILOSUS* Murr. Fabaceae.

No. 1442.

224637. *ONOBRYCHIS SAXATILIS* var. *ATLANTICA* Batt. & Maire Fabaceae.

No. 1772.

224638. *ONONIS COSSONIANA* Boiss. Fabaceae.

No. 1553.

224639. *PSORALEA AMERICANA* var. *POLYSTACHYA* (Poir.) P. Cout. Poaceae.

No. 1682.

224640. *STIPA GIGANTEA* var. *MAROCCANA* Pau & Font-Quer Poaceae.

Needlegrass.

No. 137.

224641. *STIPA RETORTA* Cav.

Needlegrass.

No. 143.

224642. *TRIFOLIUM ANGUSTIFOLIUM* L. Fabaceae.

Clover.

No. 1600.

224643. *TRIFOLIUM BOCCONEI* Savi

Clover.

No. 1621.

224644. *TRIFOLIUM CAMPESTRE* Schreb.

Clover.

No. 1643.

224645. *TRIFOLIUM MARITIMUM* Huds.

Clover.

No. 1612.

224646. *TRIFOLIUM TOMENTOSUM* L.

Woolly clover.

No. 1628.

224647. *SESAMUM INDICUM* L. Pedaliaceae.

Sesame.

From Nigeria. Seeds presented by the University College, Ibadan. Received Apr. 8, 1955. Grown at Samaru.



**224648. DAHLIA sp. Asteraceae.**

From Costa Rica. Collected by E. G. Nelson, Field Crops Research Branch, Beltsville, Md. Received Apr. 8, 1955.

'Riega Bagazo'.

**224649 to 224656. ORYZA SATIVA L. Poaceae.****Rice.**

From Japan. Seeds presented by the Hokkaido Agricultural Experiment Station, Hokkaido. Received Apr. 8, 1955.

224649. 'Eikou'.

224653. 'Okute-Eikou'.

224650. 'Hugisaka-5'.

224654. 'Terunishiki'.

224651. 'Ishikari-Shirage'.

224655. 'Tominishiki'.

224652. 'Nakate-Eikou'.

224656. 'Toyohikari'.

**224657 to 224660 TRITICUM AESTIVUM L. Poaceae. Common wheat.**

From Australia. Seeds presented by the Department of Agriculture, Sydney, New South Wales. Received Apr. 8, 1955.

224657. 'Doubbi'.

224659. 'Insignia'.

224658. 'Eden'.

224660. 'Rapier'.

**224661 to 224663. SESAMUM INDICUM L. Pedaliaceae.****Sesame.**

From Libya. Seeds presented by the United States Operations Mission to Libya, Tripoli. Received Apr. 8, 1955.

224661. No. 45.

224662. No. 64A.

224663. Local.

**224664 and 224665. ORYZA SATIVA L. Poaceae.****Rice.**

From Thailand. Seeds presented by the Rice Department, Bangkok. Received Apr. 8, 1955.

224664. 'Khaota Hang'.

224665. 'Nangmol'.

**224666 and 224667. TRIFOLIUM PRATENSE L. Fabaceae. Red clover.**

From Denmark. Seeds presented by Carl Jacobsensvej, Valby, Copenhagen. Received Apr. 8, 1955.

224666. Single cut (No. 05038).

224667. Double cut (No. 0685).

**224668 to 224680.**

From New York. Seeds at the Regional Plant Introduction Station, Geneva, numbered Apr. 11, 1955.

224668. CUCUMIS SATIVUS L. Cucurbitaceae. **Cucumber.**

'Kaga Husinari'. Originally from Korea. A selection having only pistillate flowers.

224669 and 224670. CUCURBITA MAXIMA Duchesne Cucurbitaceae. **Squash.**

224669. 'Bush Buttercup'. (New Hampshire.) Selected from an unknown P.I. number in 1938.

224670. 'Balkabagi'. Originally from Turkey. An orange turban squash.

224671. LESPEDEZA STIPULACEAE Maxim. Fabaceae.

From James F. A. Brannon, Fulton, N. Y.

224672. LESPEDEZA sp.

From James F. A. Brannon, Fulton, N. Y.

**224668 to 224680—Continued**

**224673 and 224674.** *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. **Tomato.**

**224673.** 'Mikado'. Originally from Uruguay.

**224674.** 'BV No. 5'. Very early breeding variety

**224675.** *LYCOPERSICON ESCULENTUM* var. *CERASIFORME* (Dun.) A. Gray

'X907W'. Originally from Mexico. Fruits cherry size. Late blight resistant.

**224676.** *MALVA VERTICILLATA* L. Malvaceae.

'Futter malva'. Originally from the Jardin Botanique, Nancy, France. Selection valued for forage, particularly for silage.

**224677.** *PISUM SATIVUM* L. Fabaceae.

**Garden pea.**

'Delwicke Early Scotch'. Very vigorous; medium maturity; many double pods; heavy set. Selection from P.I. 222534.

**224678 and 224679.** *PRUNUS DOMESTICA* L. Amygdalaceae.

**Common plum.**

Originally from Skierniewice. Poland.

**224678.** A very hardy white plum.

**224679.** A hardy prune.

**224680.** *TRIFOLIUM REPENS* L. Fabaceae.

**Whiteclover.**

'Kersey'. Originally from England. A persistent type with abundant foliage; recovers rapidly after grazing.

**224681.** *GARCINIA SPICATA* (Wight & Arn.) Hook F. Clusiaceae.

From Maryland. Plant growing at the United States Plant Introduction Station, Glenn Dale. Numbered Apr. 11, 1955.

Originally from Japan.

**224682 and 224683.**

From Guatemala. Seeds collected by E. G. Nelson, Field Crops Research Branch, Beltsville, Md. Received Apr. 11, 1955.

**224682.** *ABUTILON* sp. Malvaceae.

Originally from south of Tekax.

**224683.** *CORCHORUS SILIQUOSUS* L. Tiliaceae.

From Managua, Nicaragua.

**224684 to 224690.**

From Burma. Seeds presented by the Agricultural Attache, American Embassy, Rangoon. Received Apr. 11, 1955.

**224684.** *BETA VULGARIS* L. Chenopodiaceae

**Common beet.**

**224685.** *BRASSICA JUNCEA* (L.) Coss. Brassicaceae.

**Chinese mustard.**

**224686.** *BRASSICA PEKINENSIS* (Lour.) Rupr.

**Petsai.**

**224687.** *CAPSICUM FRUTESCENS* L. Solanaceae.

**Redpepper.**

**224688.** *CUCUMIS MELO* var. *RETICULATUS* Naud. Cucurbitaceae.

**224689.** *DAUCUS CAROTA* L. Apiaceae.

**Carrot.**

**224690.** *SOLANUM MELONGENA* L. Solanaceae.

**Eggplant.**

**224691 to 224699.**

From Northern Rhodesia. Clones collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 12, 1955.

Collected Mar. 28-29, 1955.

**224691 to 224699—Continued**

**224691 to 224696.** *CYNODON DACTYLON* (L.) Pers. Poaceae. **Bermudagrass.**

**224691.** Col. No. 167. Growing on grounds of Victoria Falls Hotel. Lawn type; sod dense; prolific seeder.

**224692.** Col. No. 168. Near Victoria Falls Hotel. Hay and grazing type; tall growing, with long stolons and vigorous rootstock.

**224693.** Col. No. 170. Mount Makula Experiment Station. Tall-growing with long stolons and rhizomes; very vigorous. Wild among other grasses in wet soil area.

**224694.** Col. No. 173. Fort Jamison. Hardy lawn grass; sod dense.

**224695.** Col. No. 174. Fort Jamison. Tall-growing; used for pasture or cut for hay.

**224696.** Col. No. 175. Mount Makula Experiment Station. Hay and grazing type. Vigorous growing, tall.

**224697.** *DIGITARIA MILANJIANA* (Rendle) Stapf Poaceae.

Col. No. 172. Mount Makula Experiment Station. Plant large, stoloniferous; well adapted to poor sandy soil.

**224698.** *ERAGROSTIS* sp. Poaceae.

Col. No. 169. Mount Makula Experiment Station, Lusaka.

**224699.** (Undetermined.)

Col. No. 176. Wild, stoloniferous grass. On low wet ground at Mount Makula Experiment Station.

**224700 to 224746.**

From Mexico. Seeds collected by Donovan S. Correll, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 12, 1955.

**224700 to 224705.** *GOSSYPIUM* (hybrid). Malvaceae. **Cotton.**

**224700.** Col. No. 22. Ribera de El Amatal, Cupia, Chiapas. Mar. 5, 1955.

**224701.** Col. No. 23. Acala, Chiapas. Mar. 5, 1955.

**224702.** Col. No. 24. Acala, Chiapas. Mar. 5, 1955. Cultivated near Puerto, Mexico.

**224703.** Col. No. 25. Market Acala, Chiapas. Mar. 5, 1955. Purchased in shop.

**224704.** Col. No. 26. Acala, Chiapas. Mar. 5, 1955. Fibers exceptionally long.

**224705.** Col. No. 36. Comitan, Chiapas. Mar. 7, 1955. Grown at San Bartolome.

**224706.** *CAPSICUM FRUTESCENS* L. Solanaceae. **Redpepper.**

Col. No. 37. 'Chili Blanco'. Market, Comitan, Chiapas. Mar. 7, 1955.

**224707.** *DIOSCOREA* sp. Dioscoreaceae.

Col. No. 1. Rancho de Esperanza, two miles northeast of Chiapas, on Camino Nacional, Tuxtla Gutierrez San Cristobal, Chiapas. Mar. 3, 1955. Plant growing in spiny thickets; soil sandy.

**224708.** *DIOSCOREA SPICULIFLORA* Hemsl. **Yam.**

Col. No. 3. Eight miles from Tuxtla Gutierrez on road to Villa Flores, near Suchiapa, Chiapas. Mar. 3, 1955. Growing in spiny shrub thickets on rocky slope.

**224709.** *LYCOPERSICON* (hybrid). Solanaceae. **Tomato.**

Col. No. 4. *L. pimpinellifolium* × *esculentum*. Market, San Cristobal, Chiapas. Mar. 4, 1955. Wild type; growing along river bank. Very disease resistant; fruits about one-half inch in diameter.

**224700 to 224746—Continued**

- 224710.** *LYCOPERSICON ESCULENTUM* Mill. **Tomato.**  
Col. No. 45. 'Tomatillo'. Teopisca, Chiapas. Mar. 7, 1955. Fruits about one-half inch in diameter.
- 224711.** *PHASEOLUS COCCINEUS* L. Fabaceae. **Scarlet runner bean.**  
Col. No. 6. 'Botil'. Market, San Cristobal, Chiapas. Mar. 4, 1955.
- 224712 and 224713.** *PHASEOLUS LUNATUS* L. **Lima bean.**  
**224712.** Col. No. 27. 'Patschete'. Acala, Chiapas. Mar. 5, 1955.  
**224713.** Col. No. 42. 'Pacle'. Market, Comitán, Chiapas. Mar. 7, 1955.
- 224714 to 224746.** *PHASEOLUS VULGARIS* L. **Common bean.**  
**224714 to 224728.** Market, San Cristobal, Chiapas. Mar. 4, 1955.  
**224714.** Col. No. 7. 'Bolita'. Very disease resistant.  
**224715.** Col. No. 8. 'Agua de Leon'.  
**224716.** Col. No. 9. 'Frijol Blanco'.  
**224717.** Col. No. 10. 'De Vega'. Bush type from low lands.  
**224718.** Col. No. 11. 'De Vara'. Large vine.  
**224719.** Col. No. 12. 'Sarado'.  
**224720.** Col. No. 13. 'Frijol Blanco'.  
**224721.** Col. No. 14. 'Frijolito rosadito'.  
**224722.** Col. No. 15. 'Bolito Negro'.  
**224723.** Col. No. 16. 'Frijol de Vara'.  
**224724.** Col. No. 17. 'Bolita'.  
**224725.** Col. No. 18. 'Colorado'.  
**224726.** Col. No. 19. 'Frijol bayito'.  
**224727.** Col. No. 20. 'Roja'.  
**224728.** Col. No. 21. 'Rosado'.  
**224729.** Col. No. 28. 'Veracruzano'. Acala, Chiapas. Mar. 5, 1955.  
**224730 to 224741.** Market, Comitán, Chiapas. Mar. 7, 1955.  
**224730.** Col. No. 29. 'Gato'.  
**224731.** Col. No. 30. 'Blanco de Vara'.  
**224732.** Col. No. 36. 'Gato'.  
**224733.** Col. No. 32. 'Gato'.  
**224734.** Col. No. 33. 'Bayo de Enredo'.  
**224735.** Col. No. 34.  
**224736.** Col. No. 35. 'Colorado de Suelo'.  
**224737.** Col. No. 38. 'Blanco Bolita'.  
**224738.** Col. No. 39. 'Frijol de Enredo'.  
**224739.** Col. No. 40. 'Frijol de Enredo'.  
**224740.** Col. No. 43. 'Frijol Negro de Enredo'.  
**224741.** Col. No. 44. 'Frijol Colorado de Enredo'.  
**224742 to 224746.** Market Teopisca, Chiapas. Mar. 7, 1955.  
**224742.** Col. No. 46. 'Vareton'. Climber; very resistant to diseases and drought.  
**224743.** Col. No. 47. 'Municion'. Bush; early variety.



**224700 to 224746—Continued****224714 to 224746—Continued****224742 to 224746—Continued**

**224744.** Col. No. 48. 'Frijol Colorado de Tierra'. Bush; early variety.

**224745.** Col. No. 49. 'Frijol Negro'.

**224746.** Col. No. 50. 'Frijol de Vara'.

**224747. JUNIPERUS DRUPACEA Labill. Pinaceae Syrian juniper.**

From Greece. Seeds presented by the Ministry of Agriculture, Athens. Received Apr. 13, 1955.

Collected Oct. 20, 1954 in Mavrila, Prastos Forest, on the northwest slope, Kynouria District. Elevation 3,100 feet.

**224748. ELEOCHARIS DULCIS (Burm. f.) Henschel Cyperaceae. Matai.**

From Indonesia. Corms presented by the Agricultural Research Station, Bogor. Received Apr. 4, 1955.

**224749 and 224750. HORDEUM VULGARE L. Poaceae. Barley.**

From Indonesia. Seeds presented by F. P. Hubert, Foreign Operations Administration, American Embassy, Djakarta. Received Apr. 13, 1955. From Dieng, near Wonosobo, Central Java. Elevation 6,600 feet.

**224749.** No. 1. Heads short-awned.

**224750.** No. 2. Heads long-awned.

**224751. SECALE VAVILOVII Grossh. Poaceae.**

From Australia. Seeds presented by the Commonwealth Scientific Research Organization, Canberra. Received Apr. 13, 1955. Obtained originally from the Botanic Garden at Erevan, Armenia, Union of Soviet Socialist Republic in 1946.

**224752 to 224756.**

From Sweden. Seeds presented by the Sveriges Utsadesforenings Vallvaxtavdelning. Received Apr. 14, 1955.

**224752.** *LOLIUM* sp. Poaceae.

'No. Sv. 02010'.

**224753 to 224756. TRIFOLIUM PRATENSE L. Fabaceae. Red clover.**

**224753.** 'Merkur-2n'.

**224755.** Sv. 034.

**224754.** 'Silo-2n'.

**224756.** Sv. 065-4n.

**224757 to 224759.**

From Indonesia. Cuttings presented by the Foreign Operations Administration, General Agricultural Research Station, Bogor. Received Apr. 14, 1955.

**224757. PIPER CUBEBA L. f. Piperaceae. Cubeb pepper.**

**224758 and 224759. PIPER NIGRUM L. Black pepper.**

**224758.** 'Bulok Belantung'.

**224759.** 'Lada Lampung'.

**224760 to 224762.**

From Austria. Seeds presented by the Tobacco Breeding Station, Austrian Tobacco Monopoly, Forstenfeld. Received Apr. 15, 1955.

**224760. CANNABIS SATIVA L. Moraceae. Hemp.**

'Bols. Hemp 2'. Origin in Northern Europe. Bred by individual selection during five generations.

**224760 to 224762—Continued**

**224761.** *CAPSICUM FRUTESCENS* L. Solanaceae. **Redpepper.**

'Bols. Milk pepper'. From East Europe. Constant hybrid between two local varieties.

**224762.** *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**

'Bols. Sweet Melon No. 8'. Originally from Hungary; inbred 2 year.

**224763 to 224767.**

From Brazil. Seeds presented by Paulo Nogueira-Neto, Sao Paulo. Received Apr. 15, 1955.

**224763.** *PASPALUM DILATATUM* Poir. Poaceae. **Dallis grass.**

'Capim Australiano'.

**224764.** *PASPALUM GRISEUM* Hack.

'Capim Milha Branco'.

**224765.** *PASPALUM MALACOPHYLLUM* Trin.

'Capim Milha Roxo'.

**224766.** *PASPALUM MARITIMUM* Trin.

'Capim Genegibre'.

**224767.** *PASPALUM NOTATUM* Fluegge

**Bahiagrass,**

'Grama De Batatais'.

**224768.** *HEMIPTOLEA DAVIDII* (Hance) Planch. Ulmaceae.

From Maryland. Plant growing at the United States Plant Introduction Station, Glenn Dale. Numbered Apr. 18, 1955. Origin unknown.

**224769 and 224770.**

From New York. Seeds at the Regional Plant Introduction Station, Geneva. Numbered Apr. 18, 1955.

**224769.** *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**

Received as var. *conomon*; place of publication not found. Small, skin yellow, smooth; flesh white, sweet; matures in 68 days. Valuable as parent in breeding. Originally from Korea.

**224770.** *CUCUMIS MELO* var. *INODORUS* Naudin.

'Jaune Canari Honeydew'. Originally from Africa. Large, yellow, good quality; matures in 90 to 100 days. Valuable in breeding.

**224771.** *SORGHUM VULGARE* Pers. Poaceae.

From Peru. Seeds presented by the American Embassy, Lima. Received Apr. 18, 1955. 'Midland Milo'.

**224772 to 224774.** *RAUVOLFIA VOMITORIA* Afzel. Apocynaceae.

**Devilpepper.**

From the Belgian Congo. Cuttings presented by the Belgian Congo Agronomy Institute, Kisantu. Received Apr. 19, 1955.

**224772.** No. 1.

**224773.** No. 2.

**224774.** No. 3.

**224775.** *HORDEUM* sp. Poaceae.

From Denmark. Seeds from an unknown donor, Copenhagen. Received Apr. 19, 1955.

**224776 to 224778.**

From Germany. Seeds presented by the Deutsche Saatveredelung, Landsberger, Strabe. Received Apr. 19, 1955.

**224776.** *AGROSTIS ALBA* L. Poaceae.

**Redtop.**

**224777.** *DACTYLIS GLOMERATA* L. Poaceae.

**Orchardgrass.**

**224778.** *POA PRATENSIS* L. Poaceae.

**Kentucky bluegrass.**

**224779.** *CARICA CAULIFLORA* Jacq. Caricaceae.

From Honduras. Seeds collected by E. G. Nelson, Field Crops Research Branch, Beltsville, Md. Received Apr. 19, 1955. From Guaymas.

**224780.** *SOLANUM TUBEROSUM* L. Solanaceae.

**Potato.**

From Costa Rica. Tubers presented by the Instituto Inter-Americano de Ciencias Agricolas, Turrialba. Received Apr. 22, 1955. 'Papa Guetar'.

**224781 and 224782.**

From Mexico. Seeds presented by the Instituto de Investigacion de Zonas Deserticas, Universidad Autonoma, San Luis Potosi.

Received Apr. 20, 1955.

**224781.** *ZINNIA* sp. Asteraceae.

No. 1.

**224782.** *ZINNIA* sp.

No. 2.

**224783 and 224784.**

From Mexico. Seeds collected by Donovan S. Correll, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 20, 1955.

**224783.** *PHASEOLUS DUMOSUS* Macf. Fabaceae.

No. 7a. Market, San Cristobal, Chiapas. Seeds brownish red.

**224784.** *PHASEOLUS COCCINEUS* L.

**Scarlet runner bean.**

Col. No. 41. Market, Comitan, Chiapas. Seeds black.

**224785 to 224788.** *CUCUMIS MELO* L. Cucurbitaceae.

**Muskmelon.**

From Spain. Seeds presented by the Agricultural Attache, American Embassy, Madrid. Received Apr. 20, 1955.

Obtained from various seed houses in Valencia.

**224785.** 'Cuatretondin Amarillo'.

**224787.** 'Punonet' (Alcacer).

**224786.** 'Onteniente Amarillo'.

**224788.** 'Tendres-Puig'.

**224789.** *BROMUS TRINII* Desv. Poaceae.

**Chilean brome.**

From Chile. Seeds presented by the Agricultural Experiment Station, Fundo "La Vega," Paine. Received Apr. 20, 1955.

**224790.** *ZOYSIA MATRELLA* (L.) Merr. Poaceae.

**Manilagrass.**

From Nicaragua. Stolons presented by the Servicio Tecnico Agricola de Nicaragua, Managua. Received Apr. 5, 1955.

'Stan No. 10'.

**224791 to 224940.** *ORYZA SATIVA* L. Poaceae.

**Rice.**

From Japan. Seeds presented by the National Institute of Agricultural Science, Hiratsuka, Kanagawa. Received Apr. 20, 1955.

## 224791 to 224940—Continued

224791. 'Akikawa 44'.	224833. 'Kinki 47'.
224792. 'Aimasari'.	224834. 'Kinugasawase 121'.
224793. 'Akage'.	224835. 'Kishinriki'.
224794. 'Adebono'.	224836. 'Kotobukimochi'.
224795. 'Asahi 1'.	224837. 'Kurobe 1'.
224796. 'Asahi-Sen'.	224838. 'Kuro-Mochi 22'.
224797. 'Ayashi 1'.	224839. 'Kanto 51'.
224798. 'Benisengoku'.	224840. 'Mihonishiki'.
224799. 'Benkei'.	224841. 'Mitsuryu-ine'.
224800. 'Bonsai-ine'.	224842. 'Mogami-Mochi'.
224801. 'Chikanari 2'.	224843. 'Mubo-Aikoku'.
224802. 'Chu-Kame'.	224844. 'Murasaki-ine'.
224803. 'Daikoku-Wase'.	224845. 'Murasaki-Koyabozu'.
224804. 'Fukoku'.	224846. 'Murasaki-Muyozetsu-ine'.
224805. 'Fukubozu'.	224847. 'Naguraho'.
224806. 'Fusaku-Shirazu-Sai 1'.	224848. 'Nakasengoku'.
224807. 'Futamikawa'.	224849. 'Nawashiro-ine 22'.
224808. 'Gaisen-Mochi'.	224850. 'Norin 1'.
224809. 'Ginbozu-banzei'.	224851. 'Norin 5'.
224810. 'Ginbozu-chusei'.	224852. 'Norin 6'.
224811. 'Hashiri-bozu'.	224853. 'Norin 8'.
224812. 'Haruta-Asahi'.	224854. 'Norin 10'.
224813. 'Hatsunishiki'.	224855. 'Norin 11'.
224814. 'Hatsushimo'.	224856. 'Norin 12'.
224815. 'Hattan 10'.	224857. 'Norin 14'.
224816. 'Hayanorin'.	224858. 'Norin 16'.
224817. 'Hayashio'.	224859. 'Norin 17'.
224818. 'Hikari'.	224860. 'Norin 18'.
224819. 'Hikotaro-Mochi'.	224861. 'Norin 19'.
224820. 'Hirai 1'.	224862. 'Norin 20'.
224821. 'Ishikari-shiroge'.	224863. 'Norin 21'.
224822. 'Hirayana'.	224864. 'Norin 22'.
224823. 'Hokuriku 11'.	224865. 'Norin 23'.
224824. 'Hosakae'.	224866. 'Norin 24'.
224825. 'Kagawa 35'.	224867. 'Norin 25'.
224826. 'Kairyo-Akikoku'.	224868. 'Norin 28'.
224827. 'Kamarirazu'.	224869. 'Norin 29'.
224828. 'Kameji'.	224870. 'Norin 32'.
224829. 'Kamenoo 1'.	224871. 'Norin 33'.
224830. 'Kanto 11'.	224872. 'Norin 35'.
224831. 'Kinai-Chu 74'.	224873. 'Norin 36'.
224832. 'Kinki 25'.	224874. 'Norin 37'.



## 224791 to 224940—Continued

224875. 'Norin 39'.	224908. 'Shinano-Mochi 3'.
224876. 'Norin 41'.	224909. 'Shin-Ishijiro'.
224877. 'Norin 44'.	224910. 'Shinriki 11'.
224878. 'Norin 48'.	224911. 'Shinzan'.
224879. 'Norin 49'.	224912. 'Shirogane'.
224880. 'Norin 50'.	224913. 'Sodairyu-ine'.
224881. 'Norin 51'.	224914. 'Taisen'.
224882. 'Obanazawa 1'.	224915. 'Takanenishiki'.
224883. 'Oba-so'.	224916. 'Takara'.
224884. 'Oita-Mii-120'.	224917. 'Takeda-Wase'.
224885. 'Omachi'.	224918. 'Tamasari 1'.
224886. 'Ou-188'.	224919. 'Tanginbozu'.
224887. 'Rikuto-Norin 1'.	224920. 'Tareha-ine'.
224888. 'Rikuto-Norin 4'.	224921. 'Tarobe-Mochi'.
224889. 'Rikuto-Norin 9'.	224922. 'Tedoru-Wase'.
224890. 'Rikuto-Norin 19'.	224923. 'Tokushima-Banto 1'.
224891. 'Rikuto-Norin 24'.	224924. 'Tone-Wase'.
224892. 'Rikuu 20'.	224925. 'Tono 4'.
224893. 'Rikuu 132'.	224926. 'Toyama 3'.
224894. 'Saitama-Mochi 10'.	224927. 'Toyokuni'.
224895. 'Sakae'.	224928. 'Tozan 22'.
224896. 'San-In 17'.	224929. 'Tozo-Mochi'.
224897. 'Sanuki-Shinriki'.	224930. 'Tsurugiba'.
224898. 'Sasashigure'.	224931. 'Urasan 1'.
224899. 'Sekiyama'.	224932. 'Wase-Akioku 3'.
224900. 'Sensho'.	224933. 'Wase-Asahi'.
224901. 'Shiga-Asahi 27'.	224934. 'Wase-Esozima-Mochi'.
224902. 'Shiga-Habytae-Mochi'.	224935. 'Yachikogane'.
224903. 'Shimotsuki'.	224936. 'Yamanaka 2'.
224904. 'Shin 2'.	224937. 'Yonoyuki-Mochi'.
224905. 'Shin 5'.	224938. 'Yuubae'.
224906. 'Shin 7'.	224939. 'Zuiho'.
224907. 'Shinano 3'.	224940. 'Minori'.

224941. *HABRANTHUS CARDINALIS* (C. H. Wright) Sealy *Amaryllidaceae*.  
From the Bahamas. Bulbs presented by the Department of Agriculture, Nassau.  
Received June 3, 1955.

224942 and 224943. *ORYZA SATIVA* L. *Poaceae*. **Rice.**

From France. Seeds presented by the Laboratoire d'Agriculture, Montpellier  
(Herauld). Received Apr. 19, 1955.

224942. 'Bellardone'.

224943. 'Eiko'.

224944. *MEDICAGO SATIVA* L. *Fabaceae*. **Alfalfa.**

From New York. Seeds at the Regional Plant Introduction Station, Geneva. Num-  
bered Apr. 21, 1955.

Segregated from red clover seeds received from Yugoslavia in 1953 under P.I.  
193295.

**224945. ZEA MAYS L. Poaceae****Corn.**

From Iowa. Seeds at the Regional Plant Introduction Station, Ames. Numbered Apr. 21, 1955.

'Reid Yellow Dent'. From R. J. Friant, Agricultural Experiment Station, Morgantown, W.Va.; grown by Merrit Weakley, Williamsburg, W.Va.

**224946 to 224957. RHODODENDRON (hybrids). Ericaceae. Azalea.**

From Great Britain. Plants presented by John Waterer, Sons and Crisp, Limited, Bagshot, Surrey, England. Received Apr. 21, 1955.

**224946 to 224952. RHODODENDRON × KOSTERIANUM Schneid.**

224946. 'Afterglow'. 224950. 'Hortulanus White'.

224947. 'Comte de Gomer'. 224951. 'Mrs. L. J. Endtz'.

224948. 'Dr. M. Oosthoek'. 224952. 'T. J. Seidel'.

224949. 'Frisia'.

**224953 to 224956. RHODODENDRON 'Ghent' × 'Rustica'**

224953. 'Bartholo Lazzari'. 224955. 'Rosette'.

224954. 'Milton'. 224956. 'Thisbe'.

**224957. RHODODENDRON 'Occidentale' × 'Dainty'****224958. BEGONIA LINDLEYANA Walp. Begoniaceae.**

From Mexico. Seeds presented by E. Sohns, Chiapas. Received Apr. 22, 1955.

**224959. SPINACIA OLERACEA L. Chenopodiaceae. Common spinach.**

From Iran. Seeds presented by the Director General, Zahari. Received Apr. 22, 1955.

**224960. MEDICAGO SATIVA L. Fabaceae. Alfalfa.**

From Germany. Seeds presented by Kreis Hunfield, Braun'sche Saatzuchtwirtschaft, Wehrda. Received Apr. 22, 1955.

'Hildebrands Wehrda'.

**224961. SIDA sp. Malvaceae.**

From Costa Rica. Seeds collected by E. G. Nelson, Field Crops Research Branch, Beltsville, Md. Received Apr. 22, 1955.

**224962. DACTYLIS GLOMERATA L. Poaceae. Orchardgrass.**

From Sweden. Seeds presented by W. Weibull A. B., Landskrona. Received Apr. 22, 1955.

'Weibull's Original Tardus II Cocksfoot'.

**224963 to 225012.**

From Africa. Seeds collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 22, 1955. Collected February and March 1955.

**224963. ATRIPLEX MUELLERI Benth. Chenopodiaceae. Saltbush.**

Col. No. 92. 'Queensland Salt Bush'. Department of Agriculture, Pretoria, Transvaal.

**224964. ATRIPLEX SEMIBACCATA R. Br. Australian saltbush.**

Col. No. 88. 'Australian Salt Bush'. Department of Agriculture, Pretoria, Transvaal.

**224965. CALOPOGONIUM MUCUNOIDES Desv. Fabaceae.**

Col. No. 108. From Tobacco Research Greenhouse, Salisbury, Southern Rhodesia. Originally from Siam.

**224963 to 225012—Continued****224966.** *CASSIA* sp.

Col. No. 103. Open woods 10 miles from Salisbury, Southern Rhodesia. Plants 12 to 18 inches high; flowers yellow.

**224967.** *CENTROSEMA PUBESCENS* Benth. Fabaceae.

Col. No. 109. From Tobacco Research Greenhouse, Salisbury, Southern Rhodesia. Originally from Siam.

**224968.** *CHLORIS PYCNOTHRIX* Trin. Poaceae.

Col. No. 47. Pretoria, Transvaal. Delicate plants to 12 inches high; stems flat. Not a high yielder.

**224969.** *CROTALARIA* sp. Fabaceae.

Col. No. 121. About 20 miles from Salisbury, Southern Rhodesia, along roadside. Woody perennial, to 8 feet high.

**224970.** *DESMODIUM* sp. Fabaceae.

Col. No. 99. Thirty miles east of Salisbury, Southern Rhodesia, along roadside. Plants to 6 feet high; seeds abundantly.

**224971.** *DESMODIUM* sp.

Col. No. 101. Ten miles from Salisbury, Southern Rhodesia, in open woods. Trailing to 4 feet long; seeds abundantly.

**224972.** *DIGITARIA* sp. Poaceae.

Col. No. 48. Pretoria, Transvaal. Two to three feet high; stoloniferous.

**224973.** *ERIOCEPHALUS GLABER* Thunb. Asteraceae.

Col. No. 90. 'Kapkobos'. Department of Agriculture, Pretoria, Transvaal.

**224974.** *FESTUCA* sp. Poaceae.

Col. No. 43. Pretoria, Transvaal. Vigorous, in dense clumps.

**224975.** *FESTUCA* sp.

Col. No. 44. Pretoria, Transvaal. Best vegetative yielder; very poor seeder; very dense.

**224976 to 224981.** *GLYCINE JAVANICA* L. Fabaceae.

**224976.** Col. No. 30. From the Botanic Gardens, Pretoria, Transvaal. Mar. 1, 1955.

**224977 to 224981.** Collected by Dr. L. E. Codd. March, 1955.

**224977.** Col. No. 31. 'Skukuza'. Pretoria, Transvaal.

**224978.** Col. No. 32. Blauwberg, Transvaal.

**224979.** Col. No. 34. Schoemanskloof, Transvaal.

**224980.** Col. No. 35. Southern Rhodesia.

**224981.** Col. No. 38. Southern Rhodesia.

**224982.** *INDIGOFERA* sp. Fabaceae.

Col. No. 95. Rocky hill, Salisbury, Southern Rhodesia. Small legume 12 to 18 inches high; produces an abundance of seeds.

**224983.** *LOTONONIS BAINESII* Baker Fabaceae.

Col. No. 36. Collected by Dr. L. E. Codd, Naboomspoint, Transvaal. Mar. 1, 1955.

**224984.** *OSTEOSPERMUM MURICATUM* E. Mey. Asteraceae.

Col. No. 89. 'Bermuda Brak'. From Department of Agronomy, Pretoria, Transvaal.

**224963 to 225012—Continued**

**224985.** *PANICUM* sp. Poaceae.

Col. No. 120. 'Bambatsi'. Henderson Experiment Station, Salisbury, Southern Rhodesia. Mar. 17, 1955. Plants to 5 feet high; used as temporary grazing crop.

**224986.** *PANICUM* sp.

Col. No. 70. Pretoria, Transvaal. Plants to 8 feet high; too coarse for hay.

**224987.** *PANICUM* sp.

Col. No. 61. Pretoria, Transvaal. Very fine-stemmed grass to 18 inches high; profuse seeder.

**224988.** *PANICUM* sp.

Col. No. 64. Pretoria, Transvaal. Upright bunchgrass with fine leaves and stems.

**224989.** *PANICUM* sp.

Col. No. 76. Pretoria, Transvaal. Plants to 4 feet high, fine-stemmed. A heavy yielder; makes good hay.

**224990.** *PANICUM* sp.

Col. No. 83. Pretoria, Transvaal. Fine-stemmed to 3 feet high. Dense cover and good yielder.

**224991.** *PANICUM* sp.

Col. No. 84. Pretoria, Transvaal. Sprawling bunch type; produces abundance of seeds.

**224992.** *PANICUM* sp.

Col. No. 85. Pretoria, Transvaal. Fine leaves and stems; to 3 feet high; rather dense cover.

**224993.** *PASPALUM SCROBICULATUM* L. Poaceae.

Col. No. 66. Pretoria, Transvaal. To 3 feet high, sprawling.

**224994.** *PASPALUM* sp.

Col. No. 67. Pretoria, Transvaal. Fine stems; a good yielder.

**224995.** *PASPALUM* sp.

Col. No. 68. Pretoria, Transvaal. To 4 feet high; lodges when grown.

**224996.** *PASPALUM POLYSTACHYUM* R. Br.

Col. No. 71. Pretoria, Transvaal.

**224997.** *PENNISETUM TYPHOIDES* (Burm.) Stapf & Hubbard

Col. No. 111. Tobacco Research Station, Salisbury, Southern Rhodesia.

**224998.** *PENNISETUM* sp.

Col. No. 62. Salisbury, Southern Rhodesia. Makes a dense growth to 3 feet high; stems fine.

**224999.** *PENNISETUM* sp.

Col. No. 63. Salisbury, Southern Rhodesia. Smaller with finer stems than P.I. 224998.

**225000.** *PENTZIA INCANA* (Thunb.) Kuntze Asteraceae. **Australian sheepbush.**

Col. No. 86. 'Goeie Karoo'. Department of Agriculture, Pretoria, Transvaal. Small shrub.

**225001.** *PENTZIA SPHAEROCEPHALA* DC.

Col. No. 87. Department of Agriculture, Pretoria, Transvaal.

**225002.** *PSORALEA CANDICANS* Eckl. & Zeyh. Fabaceae.

Col. No. 91. Department of Agriculture, Pretoria, Transvaal.



**224963 to 225012—Continued****225003.** *SESAMUM ALATUM* Thonn. Pedaliaceae.

Col. No. 107. From Tobacco Research Greenhouse, Salisbury, Southern Rhodesia.

**225004.** *SETARIA SPHACELATA* (Schum.) Stapf & Hubbard Poaceae. **Millet.**

Col. No. 73. Pretoria, Transvaal. Suckers at nodes; tough when mature.

**225005.** *SETARIA* sp.

Col. No. 78. Pretoria, Transvaal. Rather coarse, to 7 feet high; too heavy for hay.

**225006.** *SORGHUM SUDANENSE* (Piper) Stapf Poaceae **Sudangrass.**

Col. No. 119. Henderson Experiment Station, 15 miles from Salisbury, Southern Rhodesia. Grows to 8 feet high; used for temporary grazing and cover crop.

**225007.** *TEPHROSIA* sp. Fabaceae.

Col. No. 122. Growing among granite rocks about 15 miles from Salisbury, Southern Rhodesia. Plants about 2 feet high; seeding abundantly.

**225008.** *TERAMNUS* sp. Fabaceae.

Col. No. 29. Department of Agriculture, Pretoria, Transvaal.

**225009.** *TRAGUS BERTERONIANUS* Schult. Poaceae.

Col. No. 46. Pretoria, Transvaal. Wild grass to 10 inches high; heavy seeder; low vegetative yield.

**225010.** *VIGNA SINENSIS* (Torner) Savi Fabaceae. **Common cowpea.**

Col. No. 105. Ten miles from Salisbury near Tobacco Station, Southern Rhodesia. Running vine, to 8 feet long.

**225011.** *PANICUM* sp. Poaceae.

Col. No. 1. Near Accra, Gold Coast. Feb. 21, 1955. Plant to 4 feet high; palatable to livestock.

**225012.** *PENNISSETUM CILIARE* (L.) Link Poaceae. **Buffelgrass.**

Col. No. 2. Near Accra, Gold Coast. Feb. 21, 1955. Plant about 2 feet high, semispreading; leaves harsh; seed heads upright.

**225013 to 225015. PRUNUS AVIUM L. Amygdalaceae. Sweet cherry.**

From Australia. Scions presented by the Department of Agriculture, Sydney, New South Wales. Received Apr. 22, 1955.

**225013.** 'Ransom' GB 47-40.**225014.** 'Regina' GB 69-33.**225015.** 'Rival' GA 6/22.**225016 to 225025. HORDEUM VULGARE L. Poaceae. Barley.**

From Japan. Seeds presented by the Ohara Institute for Agricultural Biology, Kurashiki. Received Apr. 22, 1955.

**225016.** 'Choshiro-hen'.**225021.** 'Kuromugi No. 148'  
(Spring type.)**225017.** 'Ehimehadaka No. 1'.  
(Spring type.)**225022.** 'Oshichi-hen'.**225018.** 'Henro-hen'.**225023.** 'Suifu'.**225019.** 'Kairyo-bozu'. (Spring type.)**225024.** 'Yanehadaka-hen'.**225020.** 'Kogane-mugi'.**225025.** 'Yanehadaka No. 2'.  
(Spring type.)

**225026. HORDEUM VULGARE L. Poaceae. Barley.**

From Turkey. Seeds presented by the Institute for Agricultural Research, Ankara.  
Received Apr. 22, 1955.

'Takak' 157/37.

**225027 to 225029. AVENA SATIVA L. Poaceae. Common oats.**

From Belgium. Seeds presented by the Station de Recherches de l'Etat pour l'Amélioration des Plantes de Grande Culture, Gembloux. Received Apr. 22, 1955.

225027. 'Altesse Jonne' F<sub>7</sub>.

225028. 'Blanche du Vieux Moulin' L. 17.

225029. 'Esporr de Gembloux' C 5.

**225030 and 225031. AVENA SATIVA L. Poaceae. Common oats.**

From Great Britain. Seeds presented by Dr. H. Hunter, Cambridge. Received Apr. 22, 1955.

225030. 'Argentine'.

225031. 'Argentine 12'.

**225032 to 225037. HORDEUM VULGARE L. Poaceae. Barley.**

From Germany. Seeds presented by Saatzucht, Ferdinand Heinie, Hanover. Received Apr. 22, 1955.

225032. Heine Fl 084/53.

225035. Heine Fl 0254/53.

225033. Heine Fl 0125/53.

225036. Heine Fl 0299/53.

225034. Heine Fl 0211/53.

225037. Heine Fl 0367/53.

**225038 to 225045. LINUM USITATISSIMUM L. Linaceae. Flax.**

From Ireland. Seeds presented by the Plant Breeding Division, The Manor Farm, Loughgall County, Armagh. Received Apr. 25, 1955.

225038 to 225041. 'La Plata' 248/52.

225038. No. 1.

225040. No. 3.

225039. No. 2.

225041. No. 4.

225042 to 225045 Tx. 1.

225042. No. 5.

225044. No. 7.

225043. No. 6.

225045. No. 8.

**225046. CYNODON sp. Poaceae.**

From Africa. Stolons collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 25, 1955.

Col. No. 213. Golf course, Tabora, Tanganyika Territory. Apr. 15, 1955.

Possibly 'Starr' × common hybrid. Larger than common type and more tender than 'Starr'.

**225047 to 225107. RHODODENDRON (hybrids). Ericaceae. Azalea.**

From Great Britain. Plants presented by the John Waterer Sons and Crisp Limited, Bagshot, Surrey, England. Received Apr. 25, 1955.

225047 to 225071. RHODODENDRON × KOSTERIANUM Schneid. Ericaceae.

Koster azalea.

225047. 'Altaclarensen Sunbeam'.

225051. 'Comte de Papadopoli'.

225048. 'Anthony Koster'.

225052. 'David Teniers'.

225049. 'Babeuff'.

225053. 'Dulcinae'.

225050. 'Brilliant Red'.

225054. 'Elizabeth'.

**225047 to 225107—Continued****225047 to 225071—Continued**

- |                                     |                             |
|-------------------------------------|-----------------------------|
| 225055. 'Emile Liebig'.             | 225064. 'Mrs. A. E. Endtz'. |
| 225056. 'Favourite'.                | 225065. 'Mrs. Oosthoek'.    |
| 225057. 'Frans van der Bom'.        | 225066. 'Orange Blotched'.  |
| 225058. 'Hugo Hardyzer'.            | 225067. 'Peter Kersbergen'. |
| 225059. 'Hugo Koster'.              | 225068. 'Queen Sophie'.     |
| 225060. 'Isabelle van Houtte'.      | 225069. 'Shakespeare'.      |
| 225061. 'J. C. Van Thol'.           | 225070. 'Tubantia'.         |
| 225062. 'Margot Koster'.            | 225071. 'Victoria'.         |
| 225063. 'Mde. Arthur de Warrelles'. |                             |

- |  |                               |
|--|-------------------------------|
| <b>225072 to 225092. RHODODENDRON 'Ghent' × R.</b> | <b>'Rustica'</b>              |
| 225072. 'Arenthusa'.                               | 225082. 'Narcissiflora'.      |
| 225073. 'Aurea grandiflora'.                       | 225083. 'Noram'.              |
| 225074. 'Chromatella'.                             | 225084. 'Orpheus'.            |
| 225075. 'Daviesii'.                                | 225085. 'Philius'.            |
| 225076. 'Fanny'.                                   | 225086. 'Phoebe'.             |
| 225077. 'Graf van Merian'.                         | 225087. 'Proteus'.            |
| 225078. 'Grandeur Triumphant'.                     | 225088. 'Rosa plena'.         |
| 225079. 'Il Tasso'.                                | 225089. 'Sang de Gentbrugge'. |
| 225080. 'Liebritz'.                                | 225090. 'Vulcan'.             |
| 225081. 'Nancy Waterer'.                           | 225091. 'William III'.        |

**225092 to 225098. RHODODENDRON 'Occidentale'**

- |                          |                         |
|--------------------------|-------------------------|
| 225092. 'Bridesmaid'.    | 225096. 'Irene Koster'. |
| 225093. 'Delicatissima'. | 225097. 'Magnifica'.    |
| 225094. 'Graciosa'.      | 225098. 'Superba'.      |
| 225095. 'Gloriosa'.      |                         |

**225099 to 225101. RHODODENDRON × KOSTERIANUM Schneid.****Koster azalea.**

- |                       |
|-----------------------|
| 225099. 'Brazil'.     |
| 225100. 'Orange Man'. |
| 225101. 'Tangerine'.  |

**225102 to 225107. RHODODENDRON 'Ghent' × R. 'Rustica'.**

- |                              |                         |
|------------------------------|-------------------------|
| 225102. 'Aida'.              | 225105. 'Gloria Mundi'. |
| 225103. 'Bouquet de Flore'.  | 225106. 'Phallas'.      |
| 225104. 'Coccinea speciosa'. | 225107. 'Unique'.       |

**225108 and 225109.**

From Sweden. Presented by the Horticultural Research Station, Alnarp, Akarp.  
Received April 26, 1955.

**225108. FRAGARIA VESCA L. Rosaceae.****European strawberry.**

'Silva'. (Plants.)

**225109. MALUS SYLVESTRIS Mill. Malaceae.****Apple.**

'Alfa 68'. (Scions.)

**225110 to 225121.**

From Germany. Seeds presented by Hans Leichum, Frankfurt-am-Main. Received April 26, 1955.

**225110.** *ARRHENATHERUM ELATIUS* (L.) Beauv. Poaceae. Oatgrass.  
No. 22659.

**225111.** *FESTUCA ELATIOR* L. Poaceae. Meadow fescue.  
No. 20298.

**225112.** *FESTUCA RUBRA* L. Ryegrass.  
No. 20490.

**225113 and 225114.** *LOLIUM PERENNE* L. Poaceae. Ryegrass.

**225113.** 'Odenwalder Deutsches Weidelgras'.

**225114.** No. 22977.

**225115.** *LOTUS CORNICULATUS* L. Fabaceae. Birdsfoot trefoil.

'H8. Oberdielbacher Hornech Klee'.

**225116.** *PHALARIS ARUNDINACEA* L. Poaceae. Reed canarygrass.

**225117.** *PHLEUM PRATENSE* L. Poaceae. Timothy.

'Odenwalder Lieochgras'.

**225118.** *POA PRATENSIS* L. Poaceae. Kentucky bluegrass.

No. 24161.

**225119 and 225120.** *TRIFOLIUM PRATENSE* L. Fabaceae. Red clover.

**225119.** 'Oberdielbacher Rotklee'.

**225120.** No. 23366.

**225121.** *TRISTETUM FLAVESCENS* (L.) Beauv. Poaceae.

No. 22656.

**225122.** *ROSA* sp. Rosaceae.

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 26, 1955.

Col. No. 14546. Near village of Kan, foothills of Alborz Range above Tehran. Apr. 17, 1955. Spreading shrub to 6 feet high, occasionally cultivated or naturalized.

**225123 and 225124.**

From Iran. Scions presented by A. N. Ameri, Kerman. Received Apr. 26, 1955.

**225123.** *CITRUS RETICULATA* Blanco Rutaceae. Mandarin orange.

'Tangerine'.

**225124.** *CITRUS SINENSIS* (L.) Osbeck Sweet orange.

**225125.** *HORDEUM VULGARE* L. Poaceae. Barley.

From Germany. Seeds procured by A. M. Schlehuber, Oklahoma Agricultural and Mechanical College, Stillwater, Okla. Received Apr. 26, 1955.

'Monoennot'.

**225126 and 225127.**

From Tanganykia. Stolons collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Apr. 26, 1955.

Collected at Dar-es Salaam. Apr. 20, 1955.

**225126.** *CYNODON DACTYLON* (L.) Pers. Poaceae. Bermudagrass.

Col. No. 234. Plants to 18 inches high; stems fine; leaves long, narrow, two or three per node; stolons to 6 feet long; vigorous where soil is good.



**225126 to 225127—Continued**

**226127.** *LIPPIA NODIFLORA* Michx. Verbenaceae.

Col. No. 235. Plant to 10 inches high; makes a beautiful lawn in shady places; stands mowing well; becomes prostrate and compact.

**225128 to 225138.**

From Iran. Donor unknown. Received Apr. 26, 1955.

**225128.** *HORDEUM VULGARE* L. Poaceae.

**Barley.**

Two-rowed white.

**225129.** *HORDEUM* sp.

Two-rowed white.

**225130.** *HORDEUM* sp.

Two-rowed blue.

**225131.** *HORDEUM* sp.

Two-rowed black.

**225132.** *HORDEUM* sp.

Six-rowed black.

**225133.** *HORDEUM* sp.

Six-rowed white.

**225134.** *HORDEUM* sp.

Six-rowed white.

**225135.** *HORDEUM* sp.

Six-rowed white.

**225136.** *HORDEUM* sp.

Six-rowed black.

**225137.** *HORDEUM* sp.

Six-rowed black.

**225138.** *HORDEUM* sp.

Six-rowed white.

**225139 to 225147.**

From Ethiopia. Seeds collected by W. A. Archer, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md.

Numbered Apr. 26, 1955.

Barley selections taken from wheat introductions made in 1951.

**225139 to 225144.** *HORDEUM VULGARE* L. Poaceae.

**Barley.**

**225139.** From P.I. 193634.

**225142.** From P.I. 193875.

**225140.** From P.I. 193858.

**225143.** From P.I. 193976.

**225141.** From P.I. 193874.

**225144.** From P.I. 193885.

**225145.** *HORDEUM* sp.

From P.I. 194362.

**225146 and 225147.** *HORDEUM VULGARE* L.

**Barley.**

**225146.** From P.I. 194364.

**225147.** From P.I. 194369.

**225148. ZEA MAYS L. Poaceae****Corn.**

From Brazil. Seeds presented by Sementes Agrocere, Sao Paulo City. Received Apr. 26, 1955.

'Agrocere 3A'.

**225149 to 225151. TRITICUM AESTIVUM L. Poaceae. Common wheat.**

From Portugal. Seeds presented by an unknown donor. Received Apr. 27, 1955.

225149. 29732. 'Lusitano'.

225150. 3816. 'Pirana'.

225151. 3267. 'Sao Jiorgio'.

**225152 to 225177. TRITICUM AESTIVUM L. Poaceae. Common wheat.**

From Greece. Seeds presented by an unknown donor. Received Apr. 27, 1955.

225152. 'Lemnos' × 'Quaderna'. (G-53003.)

225153. ('Kenya' × 'Dux') × 'Quaderna'. (G-57263.)

225154. ('Kenya' × 'Mentana') × 'Quaderna'. (G-60381.)

225155. ('Kenya' × 'Dux') × 'Quaderna'. (G-58333.)

225156. ('Kenya' × 'Dux') × 'Quaderna'. (G-54136.)

225157. 'Rietty' × 'Quality'. (G-47035.)

225158. 'Libero' × (('Kenya' × 'Sinai I') × 'Mentana'). (G-54326.)

225159. 'Mentana' × (('Kenya' × 'Comberra') × 'Grinias'). (G-58363.)

225160. 'Mentana'. (YG-243.)

225161. 'Eretria'. (Greek selection) (G-202.)

225162. 'Lemnos'. (G-5770) (Durum.)

225163. 'Rietti' × 'Quality'. (G-46713.)

225164. 'Kaploutras'. (Greek *T. monococcum*.)

225165. 'Xeloeostron'. (G-3491.)

225166. 'Riett' × 'Quality'. (G-38120.)

225167. 'Durogio Portugal' × 'Lemnos'. (G-60279.)

225168. 'Kenya' × ('Sinai I' × 'Mentana') × 'Rietti'. (G-56595.)

225169. ('Comberra' × 'Grinios') × 'Mentana'. (G-57826.)

225170. ('Kenya' × 'Mentana') × 'Mentana'. (G-58325.)

225171. 'Mentana' × 'Manitoba'. (G5-58361.)

225172. ('Kenya' × 'Lux') × 'Quaderra'. (G-55571.)

225173. 'Rietti' × 'Quality'. (G-46025.)

225174. 'Rietti' × 'Quality'. (G-42855.)

225175. 'Rietti' × 'Quality'. (G-38290.)

225176. 'Pholoris Minor' × 'Petiblonco'. (G-59914.)

225177. ('Quality' × 'Rietti') × 'Manitoba'. (G-60215.)

**225178. TARAXACUM sp. Cichoriaceae.**

From Afghanistan. Plants growing at the United States Plant Introduction Station, Glenn Dale, Md. Received April 27, 1955.

Originally collected by E. E. Smith (No. 1199) on trail to Yakatal, Badakhshan, in 1954.

**225179 to 225194. ZEA MAYS L. Poaceae. Corn.**

From the Union of South Africa. Seeds presented by the Natal Agricultural Research Institute, Pietermaritzburg, Natal. Received April 27, 1955.

225179. A22.	225187. A604H; 3-1578.
225180. A22.	225188. A691H; 3-1582.
225181. A214P; 3-1526.	225189. A708H; 3-1585.
225182. A301P; 3-1537.	225190. A710H; 3-1605.
225183. A325P; 3-1540.	225191. A3298H; 3-1601-2.
225184. A425H; 3-1553.	225192. B28; 3-1.
225185. A478H; 3-1564.	225193. B1138T; 3-288-2.
225186. A508H; 3-1572.	225194. K4-KY36-11 (2nd-selection).

**225195 to 225215. ZEA MAYS L. Poaceae. Corn.**

From the Union of South Africa. Seeds presented by the Potchefstroom Agricultural College, Potchefstroom, Transvaal. Received April 28, 1955.

**225195 to 225204. (Yellow sweet corn).**

225193. C 13.	225200. C 81.
225196. C 27.	225201. C 88.
225197. C 22.	225202. 94.0h55-1-2.
225198. C 31.	225203. 94.0h55-1-3.
225199. C 68.	225204. 95.C 68-2.

**225205 to 225215. (White sweet corn).**

225205. A 81-2.	225211. E174.
225206. A 85.	225212. P471.
225207. B1 (10).	225213. P1008.
225208. E 97.	225214. 12E.
225209. E101.	225215. 3006.
225210. E159-1.	

**225216 to 225335.**

From Iran. Seeds presented by an unknown donor. Received Apr. 28, 1955.

**225216 to 225327. TRITICUM AESTIVUM L. Poaceae. Common wheat.**

225216. No. 30. 'Graecum'.
225217. No. 31. 'Graecum'.
225218. No. 32. 'Graecum'.
225219. No. 33. 'Graecum'. Indo-European.
225220. No. 34. 'Graecum'. Compact.
225221. No. 35. 'Graecum Marginatum'.
225222. No. 36. 'Graecum'.
225223. No. 37. No varietal name.
225224. No. 38. 'Erythrospermum'.
225225. No. 39. 'Erythrospermum Grano-arabicum'.
225226. No. 40. 'Erythrospermum Grano-arabicum'.
225227. No. 41. 'Erythrospermum Compactoides'.
225228. No. 42. 'Nigroaristatum'.
225229. No. 43. 'Nigroaristatum'.

## 225216 to 225335—Cont'nued

## 225216 to 225327—Continued

225230. No. 44. 'Ingrediense'.  
225231. No. 45. 'Fulvo-cinereum'.  
225232. No. 46. 'Meridionale'.  
225233. No. 47. 'Meridionale'.  
225234. No. 48. 'Meridionale'.  
225235. No. 49. 'Meridionale'.  
225236. No. 50. 'Meridionale'.  
225237. No. 51. 'Hamadanicum'.  
225238. No. 52. 'Hamadanicum'.  
225239. No. 53. 'Hostianum'.  
225240. No. 54. 'Hostianum'.  
225241. No. 55. 'Hostianum'.  
225242. No. 56. 'Hostianum'.  
225243. No. 57. 'Kazvinicum'.  
225244. No. 58. 'Kazvinicum'.  
225245. No. 59. 'Erythroleucon'.  
225246. No. 60. 'Erythroleucon'.  
225247. No. 61. 'Erythroleucon'.  
225248. No. 62. 'Erythroleucon'.  
225249. No. 63. 'Caesioides'.  
225250. No. 64. 'Sardown'.  
225251. No. 65. 'Ferrugineum'.  
225252. No. 66. 'Ferrugineum Grano-asiaticum'.  
225253. No. 67. 'Ferrugineum'.  
225254. No. 68. 'Ferrugineum Compactoides'.  
225255. No. 69. 'Turcicum'.  
225256. No. 70. 'Turcicum'.  
225257. No. 71. 'Turcicum'.  
225258. No. 72. 'Turcicum'.  
225259. No. 73. 'Turcicum'.  
225260. No. 74. 'Rubrogriseum'.  
225261. No. 75. 'Kermanchaki'.  
225262. No. 76. 'Kermanchi'.  
225263. No. 77. 'Kermanchi'.  
225264. No. 78. 'Barbarossa'.  
225265. No. 79. 'Barbarossa'.  
225266. No. 80. 'Barbarossa'.  
225267. No. 81. 'Barbarossa'.  
225268. No. 82. 'Barbarossa'.  
225269. No. 83. 'Rubromurinum'.  
225270. No. 84. 'Rubromurinum'.



## 225216 to 225335—Continued

## 225216 to 225327—Continued

225271. No. 85. 'Rubromurinum'.  
225272. No. 86. 'Rubromupinum'.  
225273. No. 87. 'Caesium'.  
225274. No. 88. 'Nigricans'.  
225275. No. 89. 'Renovatum'.  
225276. No. 90. 'Iranicum'.  
225277. No. 91. 'Mesopotamicum'.  
225278. No. 92. 'Alfidum'.  
225279. No. 93. 'Alfinflatum'.  
225280. No. 94. 'Nigro-lutescens'.  
225281. No. 95. 'Lutescens'.  
225282. No. 96. 'Velutinum'.  
225283. No. 97. 'Heroticum'.  
225284. No. 98. 'Khorassanicum'.  
225285. No. 99. 'Khorassanicum'.  
225286. No. 100. 'Tehranicum'.  
225287. No. 101. 'Albo-rubrum'.  
225288. No. 102. 'Albo-rubrum'.  
225289. No. 103. 'Rubinflatum'.  
225290. No. 104. 'Delfi'.  
225291. No. 105. 'Delfi'.  
225292. No. 106. 'Transcaspicum'.  
225293. No. 107. 'Transcaspicum'.  
225294. No. 108. 'Turkomanicum'.  
225295. No. 109. 'Cyanothrix'.  
225296. No. 110. 'Splendens'.  
225297. No. 111. 'Icterinum'.  
225298. No. 112. 'Griseo-icterinum'.  
225299. No. 113. 'Festisovii'.  
225300. No. 114. 'Erinaceum'.  
225301. No. 115. 'Christameum'.  
225302. No. 116. 'Rubriceps'.  
225303. No. 117. 'Echinodes'.  
225304. No. 118. 'Nigrobarbatum'.  
225305. No. 119. 'Salomonis'.  
225306. No. 120. 'Dreischianum'.  
225307. No. 121. 'Speciosum'.  
225308. No. 122. 'Plinianum'.  
225309. No. 123. 'Mirabile'.  
225310. No. 124. 'Rubroatrum'.  
225311. No. 125. 'Leucurum'.  
225312. No. 126. 'Leucurum'.  
225313. No. 127. 'Affine'.

**225216 to 225335—Continued****225216 to 225327—Continued**

225314. No. 128. 'Affine'.  
 225315. No. 129. 'Leucomelan'.  
 225316. No. 130. 'Reichenbachii'.  
 225317. No. 131. 'Melanopsis'.  
 225318. No. 132. 'Hordeiforme'.  
 225319. No. 133. 'Murciense'.  
 225320. No. 134. 'Apulicum'.  
 225321. No. 135. 'Niloticum'.  
 225322. No. 136. 'Proviniale'.  
 225323. No. 137. 'Obscurum'.  
 225324. No. 138. 'Obscurum'.  
 225325. No. 139. 'Obscurum'.  
 225326. No. 140. 'Coerulescens'.  
 225327. No. 141. 'Libycum'.

**225328 to 225331. TRITICUM ORIENTALE Perc.**

225328. No. 142. 'Leucurum'.  
 225329. No. 143. 'Affine'.  
 225330. No. 144. 'Valenciae'.  
 225331. No. 145. 'Melanopsis'.

**225332 and 225333. TRITICUM DICOCCUM Schrank.****Emmer.**

225332. No. 146. 'Vogens'.  
 225333. No. 147. 'Maluratum'.

**225334 and 225335. TRITICUM POLONICUM L.****Polish wheat.**

225334. No. 148. 'Villosum'.  
 225335. No. 149. 'Pseudo-martinari'.

**225336 to 225362. SACCHARUM (hybrid). Poaceae.****Sugarcane.**

From India. Cuttings presented by the Cane Breeding Institute, Coimbatore. Received April 29, 1955.

- |                 |                    |
|-----------------|--------------------|
| 225336. CO 349. | 225350. CO 962.    |
| 225337. CO 441. | 225351. CO 963.    |
| 225338. CO 467. | 225352. CO 971.    |
| 225339. CO 508. | 225353. CO 973.    |
| 225340. CO 603. | 225354. CO 974.    |
| 225341. CO 644. | 225355. CO 976.    |
| 225342. CO 649. | 225356. CO 981.    |
| 225343. CO 677. | 225357. BO 4.      |
| 225344. CO 678. | 225358. BO 21.     |
| 225345. CO 686. | 225359. Co. K. 41. |
| 225346. CO 721. | 225360. SES 273.   |
| 225347. CO 798. | 225361. SES 305.   |
| 225348. CO 801. | 225362. SES 353.   |
| 225349. CO 961. |                    |

**225363 to 225525. TRITICUM AESTIVUM L. Poaceae. Common wheat.**

From Uruguay. Seeds presented by the Ministerio de Ganaderia y Agricultura, la Estanzuela. Received Apr. 29, 1955.

A collection of smut-resistant selections.

**225363 to 225370. 'Petiblanco' × CZ(13)002400.**

225363. 2-33.	225367. 6-44.
225364. 3-36.	225368. 7-47.
225365. 4-40.	225369. 8-48.
225366. 5-41.	225370. 9-49.

**225371. 'Petirrojo' = 2762#53002 × DP(10)0 10-60.****225372 to 225406. 'Sinvalocho' × 'Petiblanco'.**

225372. 11-63.	225390. 29-173.
225373. 12-64.	225391. 30-175.
225374. 13-70.	225392. 31-187.
225375. 14-76.	225393. 32-194.
225376. 15-88.	225394. 33-195.
225377. 16-97.	225395. 34-198.
225378. 17-99.	225396. 35-219.
225379. 18-115.	225397. 36-220.
225380. 19-126.	225398. 37-221.
225381. 20-127.	225399. 38-242.
225382. 21-128.	225400. 39-243.
225383. 22-142.	225401. 40-246.
225384. 23-144.	225402. 41-256.
225385. 24-146.	225403. 42-276.
225386. 25-147.	225404. 43-277.
225387. 26-163.	225405. 44-281.
225388. 27-164.	225406. 45-336.
225389. 28-171.	

**225407 to 225410. 'Sinvalocho' × 'Petiblanco'.**

225407. 46-400.	225409. 48-474.
225408. 47-408.	225410. 49-480.

**225411 to 225416. 'Sinvalocho' × 2762 #53002 'Petirrojo'.**

225411. 50-490.	225414. 53-499.
225412. 51-491.	225415. 54-517.
225413. 52-494.	225416. 55-518.

**225417 and 225418. 38 M. A. × 2762 #53002**

225417. 56-528.
225418. 57-530.

**225419 to 225439. 'Sinvalocho' × 'Petirrojo'.**

## 225363 to 225525—Continued

## 225419 to 225439—Continued

225419.	58-537.	225430.	69-622.
225420.	59-540.	225431.	70-632.
225421.	60-541.	225432.	71-639.
225422.	61-564.	225433.	72-640.
225423.	62-568.	225434.	73-641.
225424.	63-569.	225435.	74-646.
225425.	64-570.	225436.	75-652.
225426.	65-585.	225437.	76-653.
225427.	66-590.	225438.	77-682.
225428.	67-603.	225439.	78-692.
225429.	68-605.		

## 225440 to 225443. 38 M. A. × 'Petirrojo'.

225440.	80-769.	225442.	82-798.
225441.	81-784.	225443.	83-800.

## 225444 to 225450. 'Sinvalochó' × 'Petiblanco'.

225444.	84-828.	225448.	88-848.
225445.	85-829.	225449.	89-853.
225446.	86-839.	225450.	90-855.
225447.	87-840.		

## 225451 to 225454. 'Sinvalochó' × 2762 #53002 'Petirrojo'.

225451.	91-867.	225453.	93-873.
225452.	92-869.	225454.	95-904.

## 225455 to 225459. 38 M. A. × 'Petirrojo'.

225455.	96-908.	225458.	99-2552.
225456.	97-910.	225459.	100-2579.
225457.	98-915.		

225460. 'Petiblanco' × CZ(13)002400.  
101-32.

## 225461 to 225483. 'Sinvalochó' × 'Petiblanco'.

225461.	102-71.	225473.	114-197.
225462.	103-72.	225474.	115-241.
225463.	104-94.	225475.	116-245.
225464.	105-96.	225476.	117-262.
225465.	106-119.	225477.	118-272.
225466.	107-129.	225478.	119-345.
225467.	108-130.	225479.	120-349.
225468.	109-138.	225480.	121-352.
225469.	110-167.	225481.	122-362.
225470.	111-172.	225482.	123-364.
225471.	112-91.	225483.	124-377.
225472.	113-196.		



**225363 to 225525—Continued**

225484 to 225488. 'Sinvalocho' × 'Petiblanco'.

225484. 125-392. 225487. 128-443.

225485. 126-397. 225488. 129-461.

225486. 127-418.

225489 to 225493. 'Sinvalocho' × 'Petirrojo'.

225489. 130-543. 225492. 133-659.

225490. 131-555. 225493. 134-663.

225491. 132-584.

225494 to 225498. 'Sinvalocho' × 'Petiblanco'.

225494. 135-833. 225497. 138-843.

225495. 136-838. 225498. 140-900.

225496. 137-842.

225499 to 225501. 38 M. A. × 'Petirrojo'.

225499. 141-907.

225500. 142-929.

225501. 143-2561.

225502 and 225503. 'Sinvalocho' × 'Petirrojo'.

225502. 144-2582.

225503. 145-2585.

225504 to 225524. 'Sinvalocho' × 'Petiblanco'.

225504. 146-74. 225515. 157-244.

225505. 147-91. 225516. 158-251.

225506. 148-92. 225517. 159-254.

225507. 149-93. 225518. 160-375.

225508. 150-95. 225519. 161-390.

225509. 151-100. 225520. 162-410.

225510. 152-111. 225521. 163-420.

225511. 153-112. 225522. 164-446.

225512. 154-121. 225523. 165-448.

225513. 155-122. 225524. 166-450.

225514. 156-193.

225525. 'Sinvalocho' × 'Petiblanco'.

167-831.

**225526 to 225539.**

From Germany, Plants purchased from Herm. A. Heese Baumschulen, Weener  
Received Apr. 29, 1955.

225526. ABIES NORDMANNIANA (Steven) Spach Pinaceae.

Nordmann fir.

'Pendula'.

225527. ACER SACCHARINUM L. Aceraceae.

Silver maple.

'Pyramidale'.

225528. ACER LAXIFLORUM Pax

Maple.

225529. ACER VEITCHII Schwerin

Veitch maple.

**225526 to 225539—Continued**

- 225530 and 225531.** *CEDRUS LIBANI* A. Rich. Pinaceae. Cedar-of-Lebanon.  
**225530.** 'Sargentii'.  
**225531.** 'Stenocoma'.
- 225532.** *JUNIPERUS COXII* A. B. Jacks Pinaceae. Cox juniper.  
**225533.** *LABURNUM ALPINUM* (Mill.) Bercht. & Presl. Fabaceae. Scotch laburnum.  
 'Pendulum'.
- 225534.** *PICEA ORIENTALIS* (L.) Link Pinaceae. Oriental spruce.  
 'Nutans'.
- 225535.** *POPULUS SZECHUANICA* C. Schneid. Salicaceae. Szechwan poplar.  
**225536.** *POPULUS WILSONII* C. Schneid.  
**225537.** *PRUNUS AVIUM* L. Amygdalaceae. Sweet cherry.  
 'Flore Plene Grandiflora'.
- 225538.** *PRUNUS PADUS* L. Bird cherry.  
 'Flore Pleno'.
- 225539.** *SALIX* × *CHRYSOSTELA* Dode Salicaceae.
- 225540** *FRAGARIA* (hybrid). Rosaceae. Strawberry.  
 From Norway. Plants presented by the Agricultural College of Norway, Vollebakk.  
 Received Apr. 29, 1955.  
 'Abundance'.
- 225541.** *SOLANUM TUBEROSUM* L. Solanaceae. Potato.  
 From Great Britain. Tubers presented by the Agricultural Research Council,  
 Potato Genetics Station, Cambridge. Received May 2, 1955.  
 'Skerry Champion'.
- 225542.** *LUPINUS LUTEUS* L. Fabaceae. European yellow lupine.  
 From the Netherlands. Seeds presented by the Selectiebedrijf "Luidenburg" N.V.,  
 Groningen. Received May 2, 1955.  
 'Neven Yellow'.
- 225543** *MEDICAGO SATIVA* L. Fabaceae. Alfalfa.  
 From Germany. Seeds presented by the Broun'sche Saatzuchtwirtschaft, Wehrda.  
 Received May 2, 1955.  
 NR. × 1566/54 'Hildebrads Wehrdaer Luzerne Superelite'.
- 225544 and 225545.** *JUGLANS REGIA* L. Juglandaceae. Persian walnut.  
 From France. Seeds presented by Gilbert Hermann, Bergerac, Dordogne. Re-  
 ceived May 2, 1955.
- 225544.** 'Corne'.  
**225545.** 'Marbot'.
- 225546 to 225550.** *MEDICAGO SATIVA* L. Fabaceae. Alfalfa.  
 From France. Seeds presented by the Station Centrale d'Amelioration des Plantes,  
 Versailles. Received May 2, 1955.
- 225546.** 'Du Puits'. **225549.** 'Gamma'.  
**225547.** 'Emeraude'. **225550.** 'Orchesienne'.  
**225548.** FD 100.

**225551 to 225590.**

From Africa. Seeds collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Section, Beltsville, Md. Received May 2, 1955.

Collected Feb. to Mar., 1955.

**225551.** *AESCHYNOMENE INDICA* L. Fabaceae.

Col. No. 159. Victoria Falls, Northern Rhodesia. Grows to 3 feet high.

**225552.** *ALBIZZIA LEBBECK* (L.) Benth. Mimosaceae.

Col. No. 39. Dakar, West Africa.

**225553.** *DANTHONIOPSIS DINTERI* (Pilger) C. E. Hubb. Poaceae.

Col. No. 145. Bluff around Victoria Falls, Northern Rhodesia. Plants to 7 feet high; leaves broad, tender.

**225554.** *BRACHIARIA* sp. Poaceae.

Col. No. 79. Pretoria, Transvaal. Dense bunchgrass, to 2.5 feet high; leaves compact, fine.

**225555.** *CASSIA* sp. Caesalpinaceae.

Col. No. 165. Along road near Victoria Falls, Northern Rhodesia. Plants to 4 feet high.

**225556.** *CHLORIS* sp. Poaceae.

Col. No. 141. Experiment Station plot, 10 miles from Lusaka, Northern Rhodesia. Plant to 4 feet high; somewhat coarse.

**225557.** *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. **Watermelon.**

Col. No. 110. Salisbury, Southern Rhodesia. Fruits about 6 inches in diameter.

**225558.** *CROTALARIA LEUBNITZIANA* Schinz Fabaceae.

Col. No. 154. Victoria Falls, Northern Rhodesia. Annual to 2 feet high.

**225559.** *CROTALARIA* sp.

Col. No. 155. Victoria Falls, Northern Rhodesia. Similar to P.I. 225558 but more delicate and more prostrate.

**225560.** *CROTALARIA INTERMEDIA* Kotschy **Slenderleaf crotalaria.**

Col. No. 157. Victoria Falls, Northern Rhodesia. Plants to 5 feet high.

**225561.** *DACTYLOCTENIUM AEGYPTIUM* (L.) Beauv. Poaceae. **Durban crowfootgrass.**

Col. No. 100. About 35 miles east of Salisbury, Southern Rhodesia. Plants to 3.5 feet high.

**225562.** *DIGITARIA* sp. Poaceae.

Col. No. 50. Pretoria, Transvaal. Extremely dense bunchgrass to 2.5 feet high.

**225563.** *DIGITARIA* sp.

Col. No. 51. Pretoria, Transvaal. Plant to 3 feet high, stoloniferous; good yielder of hay or forage; growth compact.

**225564 and 225565.** *DOLICHOS LABLAB* L. Fabaceae. **Hyacinth-bean**

**225564.** Col. No. 33. Utrecht, Natal, South Africa. Presented by the Botany Department of the Department of Agriculture, Pretoria.

**225565.** Col. No. 37. Pretoria, Transvaal. Originally from Fort Beaufort, Cape Province.

**225566.** *ECHINOCHLOA* sp. Poaceae.

Col. No. 53. Pretoria, Transvaal. A giant grass, to 10 feet high; yield good.

**225551 to 225590—Continued****225567. ECHINOCHLOA sp.**

Col. No. 56. Plant to 3 feet high; rhizomes short; upright; stems fine.

**225568. ECHINOCHLOA CRUSGALLI var. MITIS (Pursh) Peterm.**

**Beardless barnyard grass.**

Col. No. 57. Pretoria, Transvaal. Plant to 8 feet high; heavy yielder; used for silage.

**225569. ELEUSINE CORACANA (L.) Gaertn. Poaceae.**

**Ragi.**

Col. No. 123. Negro Secio Reservation, about 20 miles from Salisbury, Southern Rhodesia. Plants to 2.5 feet high.

**225570. ERAGROSTIS sp. Poaceae.**

Col. No. 55. Pretoria, Transvaal. Plant to 5 feet high; dense bunchgrass; yield heavy; seeds heavy.

**225571. ERIOSEMA sp. Fabaceae.**

Col. No. 132. Five miles from Lusaka, Northern Rhodesia. Plants to 8 feet high; much branched; flowers yellow; seeds abundantly.

**225572. FESTUCA sp. Poaceae.**

Col. No. 42. Pretoria, Transvaal. Plant large and vigorous.

**225573. GLYCINE JAVANICA L. Fabaceae.**

Col. No. 144. Experiment Station 10 miles from Lusaka, Northern Rhodesia.

**225574. HETEROPOGON sp. Poaceae.**

Col. No. 158. Near Victoria Falls, Northern Rhodesia. Plant to 6 feet high.

**225575. INDIGOFERA ECHINATA Willd. Fabaceae.**

**Indigo.**

Col. No. 142. Experiment Station, 10 miles from Lusaka, Northern Rhodesia. Stems about 2 feet high.

**225576. INDIGOFERA sp.**

Col. No. 148. Victoria Falls, Northern Rhodesia. Plants to 4 feet high; seeds abundantly.

**225577. INDIGOFERA sp.**

Col. No. 160. Near Victoria Falls, Northern Rhodesia. Plants to 4 feet high; woody; low vegetative yield.

**225578. INDIGOFERA DIPHYLLA Vent.**

**Indigo.**

Col. No. 149. Around Victoria Falls and Lusaka, Northern Rhodesia. Prostrate leafy legume. Common in tall grass.

**225579. PANICUM sp. Poaceae.**

Col. No. 52. Pretoria Transvaal. Plant to 5 feet high; yield fairly good.

**225580. PANICUM sp.**

Col. No. 77. Pretoria, Transvaal. Upright, very compact; makes fine hay.

**225581. PANICUM sp.**

Col. No. 81. Pretoria, Transvaal. Plant to 5 feet high. Hay type.

**225582. PANICUM sp.**

Col. No. 151. Open woods near Victoria Falls, Northern Rhodesia. Plants to 5 feet high.



**225551 to 225590—Continued**

- 225583 to 225585.** *PENNISETUM CILIARE* (L.) Link Poaceae **Buffleggrass.**  
**225583.** Col. No. 58. Pretoria, Transvaal.  
**225584.** Col. No. 59. Pretoria, Transvaal. A leafy type.  
**225585.** Col. No. 69. Pretoria, Transvaal. Largest, latest and best variety grown.  
**225586.** *SETARIA SPHACELATA* (Schum.) Stapf & Hubb. Poaceae. **Millet.**  
 Col. No. 45. Pretoria, Transvaal. Grows wild; to 4 feet high.  
**225587.** *SETARIA* sp.  
 Col. No. 72. Pretoria, Transvaal. Plant to 5 feet high. Bunch type; stems fine.  
**225588.** *SETARIA* sp.  
 Col. No. 74. Pretoria, Transvaal. Dense, compact bunchgrass to 2.5 feet high; leaves fine.  
**225589.** *SETARIA SPHACELATA* (Schum.) Stapf & Hubb. **Millet.**  
 Col. No. 75. Pretoria, Transvaal. Sprawling bunchgrass.  
**225590.** *SETARIA CHEVALIERI* Stapf **Millet**  
 Col. No. 80. Pretoria, Transvaal. Grass to 5 feet high; ornamental.

**225591 to 225602.**

From British East Africa. Clones collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 3, 1955.

Collected Apr. 11 to 17, 1955 in Tanganyika.

- 225591.** *CYNODON* sp. Poaceae.  
 Col. No. 209. Growing near Tabora Hotel. Aggressive; stolons stout; internodes short.  
**225592.** *CYNODON* sp.  
 Col. No. 210. Near Tabora. Stems have longer internodes than P.I. 225591; 2 to 3 leaves per node.  
**225593.** *CYNODON* sp.  
 Col. No. 211. Edge of street in Tabora. Stems stout; leaves yellowish green.  
**225594.** *CYNODON* sp.  
 Col. No. 212. Along road to Airport, Tabora. Vigorous, dark green; about 15 inches high; stolons long; rhizomes short. Growing in thick sod.  
**225595.** *CYNODON DACTYLON* (L.) Pers. **Bermudagrass.**  
 Col. No. 226. Mpwapa Experiment Station. Very good, short; fine sod.  
**225596.** *CYNODON* sp.  
 Col. No. 227. Mpwapa Experiment Station. A fine-leaved variety; 2 leaves per node; may be a cross with *C. dactylon*.  
**225597.** *CYNODON* sp.  
 Col. No. 228. Mpwapa Experiment Station. Small type mixed with 'Starr'; grazed more closely than the coarse.  
**225598.** *CYNODON* sp.  
 Col. No. 229. Mpwapa Experiment Station. Large blue-green type; rather coarse. Used for hay and silage.  
**225599.** *CYNODON* sp.  
 Col. No. 230. Mpwapa Experiment Station. Grows best in moist soil; used for grazing, hay and silage.  
**225600.** *CYNODON* sp.  
 Col. No. 231. Mpwapa Experiment Station. Smallest of 'Starr' variety, may be

**225591 to 225602—Con inued**

a cross with *C. dactylon*. Grows in fairly wet soil; stems fine; leaves very palatable.

**225601.** *ANDROPOGON PAPILLOSUS* Hochst. Poaceae.

**Bluestem.**

Col. No. 232. Mpwapa Experiment Station. Grass tender; very fine leaved excellent for pasture or hay.

**225602.** (Undetermined.) Poaceae.

Col. No. 204. No data.

**225603 to 225605. COFFEA ARABICA L. Rubiaceae. Arabian coffee.**

From India. Seeds presented by the Coffee Research Station, Balehonnur, Mysore State. Received May 3, 1955.

**225603.** S.288.

**225604.** S.333.

**225605.** S.795.

**225606 to 225609.**

From India. Seeds presented by the Institute of Plant Industry, Indore. Received May 2, 1955.

**225606.** *DICHANTHIUM ANNULATUM* (Forsk.) Stapf Poaceae.

**Palwan.**

**225607.** *BOTHRIODCHLOA PERTUSA* (L.) A. Camus Poaceae.

**225608.** *BOTHRIODCHLOA INTERMEDIA* (R. Br.) A. Camus

**225609.** *HETEROPOGON CONTORTUS* (L.) Beauv. Poaceae.

**Tanglehead.**

**225610 to 225619. PAPAVER ORIENTALE L. Papaveraceae.**

**Oriental poppy.**

From Turkey. Seeds presented by the University of Ankara, Ankará. Received May 3, 1955.

**225610.** No. 34/1; 'Bilecik'.

**225615.** 130/3; 'Isparta'.

**225611.** No. 35/1; 'Bilecik'.

**225616.** 137/2; 'Antalya'.

**225612.** No. 72/14; 'Kutahya'.

**225617.** 163/2; 'Kohya-Akşehir'.

**225613.** No. 4/2; 'Manisa-Salihli'.

**225618.** 197/2; 'Sivas-Yildiz'.

**225614.** 127/16; 'Isparta-yalvac'.

**225619.** 269/1; 'Gumushacikoy'.

**225620 to 225714.**

From Colombia. Seeds presented by the Rockefeller Foundation, Bogota. Received May 4, 1955.

**225620 and 225621.** *SOLANUM ACAULE* Bitter Solanaceae.

**225620.** No. 592.

**225621.** No. 772.

**225622 to 225637.** *SOLANUM ANDIGENUM* Juz. & Buk.

**225622.** 'Belena 33'.

**225631.** 'Tacca 681'.

**225623.** 'Colorada 686'.

**225632.** 'Tocana Colorada 46'.

**225624.** J × C No. 17A.

**225633.** 'Tuquerrena Negra' o 'Sabanera 61'.

**225625.** 'Limena 590'.

**225634.** 'Tuquerrena Negra' o 'Sabanera 61B'.

**225626.** 'Lizaraza Negra 6'.

**225627.** 'Lizaraza Rosada 5'.

**225635.** No. 427.

**225628.** 'Pana Blanca 405'.

**225636.** No. 679.

**225629.** 'Papa de Ano 47'.

**225637.** N. 687.

**225630.** 'Suso 682'.

**225620 to 225714—Continued****225638** SOLANUM BREVIDENS Phil.

No. 652.

**225639 to 225648.** SOLANUM COLOMBIANUM Dunal**225639.** No. 116.**225640.** No. 401.**225640.** No. 134.**225645.** No. 567.**225641.** No. 161.**225646.** No. 571.**225642.** No. 271.**225647.** 'Trianae No. 120'.**225643.** No. 319.**225648.** 'Trianae No. 121'.**225649 to 225651.** SOLANUM CURTILOBUM Juz. & Buk.**225649.** No. 479.**225650.** No. 480.**225651.** No. 481.**225652 to 225656.** SOLANUM DEMISSUM Lindl.**225652.** No. 606.**225655.** No. 642.**225653.** No. 620A.**225656.** No. 649.**225654.** No. 639.**225657 to 225659.** SOLANUM JUGLANDIFOLIUM H. B. K.**225657.** No. 279.**225658.** No. 391.**225659.** No. 568.**225660.** SOLANUM LONGICONICUM Bitter

No. 633.

**225661.** SOLANUM MALINCHENSE Hawkes

No. 605B.

**225662.** SOLANUM MOSCOPANUM Hawkes

No. 281.

**225663.** SOLANUM OCHRANTHUM Dunal

No. 572.

**225664.** SOLANUM PEARCEI Phil.

No. 655.

**225665 to 225710.** SOLANUM RYBINII Juz. & Buk.**225665.** 'Amarilla 252'.**225675.** 'Chaucha Chula  
Negra 131'.**225666.** 'Amarilla 588'.**225676.** 'Chaucha Colorada  
Redonda 183'.**225667.** 'Amarilla Larga 147'.**225677.** 'Chaucha Curilla 181'.**225668.** 'Caretá Amarilla 247'.**225678.** 'Chaucha Morada'  
o 'Borrega 173'.**225669.** 'Chaucha 118'.**225679.** 'Chaucha Morada'  
o 'Negra 133'.**225670.** 'Chaucha Amarilla 180'.**225680.** 'Chaucha Morada  
Redonda 191'.**225671.** 'Chaucha Blanca 135'.**225681.** 'Chaucha Negra 143'.**225672.** 'Chaucha Blanca  
Larga 125'.**225682.** 'Chaucha Negra 193'.**225673.** 'Chaucha Blanca  
Larga 178'.**225683.** 'Chaucha Negra 192'.**225674.** 'Chaucha Calavera  
Blanca 122'.

**225620 to 225714—Continued****225665 to 225710—Continued**

- |  |   |
|--|---|
| <b>225684.</b> 'Chaucha Oca (Rosada) 150'.         | <b>225697.</b> 'Jardina Morada 129'.                  |
| <b>225685.</b> 'Chaucha Rosquilla Colorada 188'    | <b>225698.</b> 'Marcilla 157'.                        |
| <b>225686.</b> 'Colorada 261'.                     | <b>225699.</b> 'Papa Amarilla' o 'Yema de Huevo 288'. |
| <b>225687.</b> 'Colorada Blanca 232'.              | <b>225700.</b> 'Papa Ibia (Blanca) 91'.               |
| <b>225688.</b> 'Colorada Careta 234'.              | <b>225701.</b> 'Papa Rosada (Rosada) 92'.             |
| <b>225689.</b> 'Colorada Legitima 256'.            | <b>225702.</b> 'Papa Mora Criolla 226'.               |
| <b>225690.</b> 'Colorada Lisa 248'.                | <b>225703.</b> 'Pepina 84'.                           |
| <b>225691.</b> 'Colorada Manzana 242'.             | <b>225704.</b> 'Rosada 124'.                          |
| <b>225692.</b> 'Criolla 276'.                      | <b>225705.</b> 'Rosalena' o 'Pepina 239'.             |
| <b>225693.</b> 'Criolla Bandera 11'.               | <b>225706.</b> 'Tabaca' o 'Chura 151'.                |
| <b>225694.</b> 'Criolla Rosada 10'.                | <b>225707.</b> 'Yema de Huevo 81'.                    |
| <b>225695.</b> 'Jardina Blanca 130'.               | <b>225708.</b> 119.                                   |
| <b>225696.</b> 'Jardina' o 'Chaucha Amarilla 561'. | <b>225709.</b> 277.                                   |
|  | <b>225710.</b> 278.                                   |

**225711.** SOLANUM TUBEROSUM L.**Potato.**

No. 643A.

**225712.** SOLANUM ETUBERCOSUM var. CHILLANENSE Bitter

No. 654.

**225713.** SOLANUM sp.

No. 273.

**225714.** SOLANUM sp.

No. 794.

**225715.** HIBISCUS CANNABINUS L. Malvaceae.**Kenaf.**

From Southern Rhodesia. Seeds presented by the Sabi Valley Experiment Station, Umtali. Received May 4, 1955.

**225716** LATHYRUS PRATENSIS L. Fabaceae.**Meadow peavine.**

From Great Britain. Seeds presented by the Royal Botanic Gardens, Kew, Surrey. Received May 5, 1955.

**225717 to 225719.** GOSSYPIUM (hybrids). Malvaceae.**Cotton.**

From Pakistan. Seeds presented by United States Operations Mission to Pakistan, through the American Embassy, Karachi. Received May 5, 1955.

Originally from Bengal.

**225717.** American type. C.B. 2991. Near Rajshahi.**225718.** Garo Hill type. C.B. 2992. Near Mymeusingh.**225719.** Kidney type. C.B. 2993. Near Rajshahi.**225720 to 225725.**

From France. Seeds presented by the Botanic Garden, Nancy. Received May 5, 1955.

**225720.** DATURA QUERCIFOLIA H.B.K. Solanaceae.**Oakleaf datura.****225721.** DATURA STRAMONIUM L.**Jimsonweed.****225.22.** DATURA TATULA L.**225723.** DATURA sp.



**225720 to 225725—Continued**225724. *Datura* sp.225725. *Datura* sp.**225726** *Lolium multiflorum* Lam. Poaceae.**Ryegrass.**

From Italy. Seeds presented by the Università Degli Studi di Firenze, Florence.  
Received May 5, 1955.

**225727** *Sansevieria thyrsoiflora* Thunb. Liliaceae.

From Haiti. Leaf collected by E. G. Nelson, Cotton and other Fiber Crops Section,  
Horticultural Crops Research Branch, Beltsville, Md.

Received May 5, 1955.

From Port-au-Prince.

**225728 to 225732.**

From Turkey. Seeds presented by the Foreign Operations Administration, Ankar.  
Received May 5, 1955.

225728. *Onobrychis viciaefolia* Scop. Fabaceae.**Sainfoin.**225729. *Onobrychis* sp.

No. 1.

225730. *Onobrychis* sp.

No. 2.

225731. *Onobrychis* sp.

No. 3.

225732. *Vicia narbonensis* L. Fabaceae.**Vetch.****225733** *Triticum aestivum* L. Poaceae.**Common wheat.**

From Turkey. Seeds collected by J. R. Harlan, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 5, 1955.

Seeds selected from a shipment of *Hordeum* sp., P.I. 170975, collected in Turkey in 1948.

**225734.** *Triticum aestivum* L. Poaceae.**Common wheat.**

From Japan. Seeds presented by Dr. Leonard, San Francisco, California. Received May 6, 1955.

Seeds selected from a shipment of *Hordeum* sp., P.I. 182615, received from Japan in 1949.

**225735.** *Arundinaria alpina* Schum. Poaceae.**Bamboo.**

From Kenya. Plants collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 10, 1955.

Col. No. 252. Forestry Department, Kitale.

**225736** *Coffea canephora* Pierre ex Froehn. Rubiaceae.**Coffee.**

From Portugal. Seeds presented by the Estacao Agronomica Nacional, Sacavem. Received May 9, 1955.

No. 299. 'DeLa Nana'. Originally from the Station Centale de Baukoko, Ubangi-Shari, French Equatorial Africa.

**225737 to 225742.**

From Kenya. Plants obtained by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 10, 1955.

**225737 to 225742—Continued**

All plants originally collected by Dr. P. J. Greenway, East African Herbarium, Nairobi.

**225737.** *SAINTPAULIA GROTEI* Engl. Gesneriaceae.

Col. No. 345. Bell Nurseries.

**225738.** *SAINTPAULIA TONGWENSIS* B. L. Burtt.

Col. No. 341. Bell Nurseries.

**225739.** *SAINTPAULIA* sp.

Col. No. 340. Bell Nurseries.

**225740.** *SAINTPAULIA* sp.

Col. No. 344. City Park Superintendent.

**225741.** *SAINTPAULIA* sp.

Col. No. 342. Originally from southeast of Kilimanjaro, Tanganyika.

**225742.** *SAINTPAULIA* sp.

Col. No. 343. City Park Superintendent.

**225743 and 225744. ORYZA SATIVA L. Poaceae.****Rice.**

From Portugal. Seeds presented by the Estacao Agronomica Nacional, Sacavem. Received May 11, 1955.

**225743.** 'Arroz da Terra'.

**225744.** 'Arroz Portugues'.

**225745 and 225746.**

From the Union of South Africa. Seeds obtained from the Rietulei Agricultural Research Station, Pretoria, Transvaal. Received May 11, 1955.

**225745.** *CHLORIS PYCNOTHRIX* Trin. Poaceae.

**225746.** *CHLORIS VIRGATA* Swartz

**225747 to 225751.**

From India. Budwood presented by the Fruit Research Station, Kodur, Cuddapah District. Received May 11, 1955.

**225747.** *CITRUS LIMON* (L.) Burm. f. Rutaceae.

**Lemon.**

**225748 and 225749.** *CITRUS RETICULATA* Blanco

**Mandarin orange.**

**225748.** 'Billikitchili'.

**225749.** 'Kitchili'.

**225750 and 225751.** *CITRUS SINENSIS* (L.) Osbeck

**Sweet orange.**

**225750.** 'Sathgudi'.

**225751.** 'Vadlapudi'. Flesh pink.

**225752 to 225781 RHODODENDRON (hybrids). Ericaceae.****Azalea.**

From Great Britain. Plants purchased from Walter C. Slocock, Limited, Woking, Surrey. Received May 11, 1955.

**225752 to 225763.** *RHODODENDRON* × *KOSTERIANUM* Schneid. Ericaceae.

**Koster azalea.**

**225752.** 'Alice de Steurs'.

**225758.** 'Minister Therbicke'.

**225753.** 'Alphonse Lavelle'.

**225759.** 'Nicholas Beets'.

**225754.** 'Bouquet d'Orange'.

**225760.** 'Oranea'.

**225755.** 'Chevalier de Reali'.

**225761.** 'Prince Frederick'.

**225756.** 'Hugo Hardyzer'.

**225762.** 'Radiant'.

**225757.** 'Mme. A. C. de Warelles'.

**225763.** 'Therese'.

**225752 to 225781—Continued**

225764 to 225770. 'Ghent' × 'Rustica-Flore Pleno'.

225764. 'Aida'.

225768. 'Milton'.

225765. 'Queen Emma'.

225769. 'Raphael de Smet'.

225766. 'Guelder Rose'.

225770. 'General Vetter'.

225767. 'Josephine Klinger'.

225771 to 225780. 'Knaphill' hybrids.

225771. 'Devon'.

225776. 'Pink Delight'.

225772. 'Gog'.

225777. 'Princess'.

225773. 'Harvest Moon'.

225778. 'Satan'.

225774. 'Mrs. Oliver Slocock'.

225779. 'Seville'.

225775. 'Persil'.

225780. 'Tunis'.

225781. RHODODENDRON OCCIDENTALE (hybrid).

'Westminister'.

**225782 to 225787. RAUVOLFIA VOMITORIA Afzel. Apocynaceae.****Devilpepper.**

From the Belgian Congo. Cuttings received through the Ciba Pharmaceutical Products, Incorporated, Summit, New Jersey.

Originally from Inkisi, Kisantu.

225782. No. 1841.

225785. No. 3030.

225783. No. 1989.

225786. No. 2476.

225784. No. 2199.

225787. Germain 2721.

**225788 to 225790. GOSSYPIUM (hybrids). Malvaceae.****Cotton.**

From Uganda. Seeds presented by the Cotton Research Station, Namulonge, Kampala. Received May 13, 1955.

225788. A619.

225789. A619 × 474.

225790. (A619 × 474) × A7262.

**225791 to 225796.**

From Kenya. Seeds presented by the Grasslands Research Station, Kitale. Received May 13, 1955.

225791. ALYSICARPUS GLUMACEUS DC. Fabaceae.

225792. TRIFOLIUM CHERANGANIENSE Gillett Fabaceae.

**Clover.**

225793. TRIFOLIUM RUEPELLIANUM Fresen.

**Clover.**

225794. TRIFOLIUM SEMIPILOSUM Fresen.

**Clover.**

225795. TRIFOLIUM STEUDNERI Schw.

**Clover.**

225796. TRIFOLIUM TEMBENSE Fresen.

**Clover.****225797 to 225798.**

From Guatemala. Seeds presented by the Instituto Agropecuario Nacional "La Aurora", Guatemala City. Received May 16, 1955.

225797. INGA sp. Mimosaceae.

Received as *I. deliciosus*, an apparently unpublished name.

225798. INGA INGOIDES Willd.

'Cushin'.

**225799. COFFEA sp. Rubiaceae.****Coffee.**

From Portugal. Seeds presented by Dr. d'Oliveira, Sacavem. Received May 16, 1955.

Originally from Posto Administrativo de Lumbo, Circunsericao de Mossuril, Niassa, Mozambique.

No. 301. Resembles *C. racemosa*.

**225800 to 225815.**

From Kenya. Stolons collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 16, 1955.

Collected in Kitale, Apr. 27 to 29, 1955.

**225800. ACRO CERAS MACRUM Stapf Poaceae.**

Col. No. 237.

**225801. BRACHIARIA HUMIDICOLA (Rendle) Schweick. Poaceae.**

Col. No. 246. K 50181. Originally from Southern Rhodesia.

**225802 to 225807. CYNODON DACTYLON (L.) Pers. Poaceae. Bermudagrass.**

**225802.** Col. No. 238. K 51426.

**225805.** Col. No. 244. K 51418.

**225803.** Col. No. 239. K 51424

**225806.** Col. No. 250. K 53672.

**225804.** Col. No. 242. K 53655.

**225807.** Col. No. 251. K 5028.

**225808. CYNODON PLECTOSTACHYUS (Schum.) Pilger**

Col. No. 240. K 53647.

**225809. CYNODON sp.**

Col. No. 236. Originally from Eldoret.

**225810. DIGITARIA MACROBLEPHARA (Hack.) Paoli Poaceae.****Crabgrass.**

Col. No. 247.

**225811. ELEUSINE FLOCCIFOLIA (Forsk.) Spreng. Poaceae.**

Col. No. 249. Perennial tufted grass.

**225812. EULALIA GENICULATA Stapf Poaceae.**

Col. No. 241. Tufted grass.

**225813. EUSTACHYS PASPALOIDES (Vahl) Lanza & Mattei. Poaceae.**

Col. No. 248.

**225814. SPOROBOLUS HELVOLUS (Trin.) Dur. & Schinz Poaceae.****Dropseed.**

Col. No. 243

**225815. SPOROBOLUS MARGINATUS Hochst.****Dropseed.**

Col. No. 245.

**225816 and 225817.**

From Iran. Cuttings collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 17, 1955.

**225816. ROSA sp. Rosaceae.****Rose.**

Col. No. 14774. Shiraz. Elevation 5,200 feet. May 6, 1955. Bush large; on trellis; petals few, used locally to make a sweet rose-water drink.

**225817. ROSA sp.**

Col. No. 14775. Shiraz. Elevation 5,200 feet. May 6, 1955. Vine large; flowers small, pale yellow.



**225818 to 225820.**

From the Belgian Congo. Cuttings presented by Jardin Gillet, Kisantu. Received May 18, 1955.

**225818.** *RAUVOLFIA* sp. Apocynaceae.

'Germain No. 2477'.

**225819.** *RAUVOLFIA* sp.

No. 4603.

**225820.** *RAUVOLFIA* sp.

No data.

**225821.** *CHRYSANTHEMUM CINERARIAEFOLIUM* (Trevir.) Vis. Asteraceae. **Pyrethrum.**

From Ecuador. Seeds presented by the Servicio Cooperativo Inter-Americano de Agricultura, Quita. Received May 18, 1955.

A strain with 1.65 to 1.75 percent pyrethrum.

**225822 to 225826.**

From Denmark. Seeds presented by Trifolium Frø, Copenhagen. Received May 18, 1955.

**225822.** *DACTYLIS GLOMERATA* L. Poaceae. **Orchardgrass.**

No 06283.

**225823.** *FESTUCA ELATIOR* L. Poaceae. **Meadow fescue.**

No. 06574.

**225824.** *FESTUCA RUBRA* L. **Red fescue.**

No. 06791.

**225825.** *LOLIUM PERENNE* L. Poaceae. **Ryegrass.**

No. 0571.

**225826.** *POA TRIVIALIS* L. Poaceae. **Roughstalk bluegrass.**

No. 02028.

**225827 to 225829.** *TRIFOLIUM AMBIGUUM* Bieb. Fabaceae. **Kura clover.**

From Australia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received May 18, 1955.

**225827.** 2264  $2n=16$ . Received in 1931 from the Botanic Gardens, Tiflis, Georgia, Union of Soviet Socialist Republics.

**225828.** 2771  $2n=16$ . Received in 1932 from the Botanic Gardens, Tiflis, Georgia, Union of Soviet Socialist Republics.

**225829.** New Zealand Strain  $2n=48$ .

**225830 to 225832.**

From Austria. Seeds presented by Julius Stainer, Vienna. Received May 18, 1955.

**225830 and 225831.** *LARIX DECIDUA* Mill. Pinaceae. **European larch.**

**225830.** No. 1. Foothills of the Alps, 2,000 to 3,300 feet elevation.

**225831.** No. 2. Central Alps, 3,300 to 6,600 feet elevation.

**225832.** *PINUS SYLVESTRIS* L. Pinaceae. **Scotch pine.**

**225833 to 225844.**

From Denmark. Seeds presented by the Jardin Botanique de l'Universite, Copenhagen. Received May 19, 1955.

**225833.** *DATURA BERNHARDII* Lundstr. Solanaceae.

**225833 to 225844—Continued**22583 . *Datura ceratocaula* Jacq.225835. *Datura ferox* L.225836. *Datura innoxia* Mill.22583 . *Datura leichhardtii* F. Muell.225838. *Datura meteloides* DC.

Sacred datura.

225839. *Datura metel* L.

Hindu datura.

225840 to 225842. *Datura stramonium* L.

Jimsonweed.

225840. Typical form.

225841. 'Godronii'.

225842. 'Inermis'.

225843 and 225844. *Datura tatula* L.

225843. Typical form.

225844. 'Inermis'.

**225845 and 225846. *Pinus sylvestris* L. Pinaceae.****Scotch pine.**

From Germany. Seeds presented by the Staatliche Samendarre Wolfgang Kreis, Hanau. Received May 19, 1955.

225845. No. 1.

225846. No. 2.

**225847 to 225849.**

From France. Plants presented by the Institut de Recherches du Coton, et des Textiles Exotiques, Paris. Received May 20, 1955.

225847. *Boehmeria nivea* (L.) Gaud. Urticaceae.

Ramie.

NB STAT.

225848. *Boehmeria platyphylla* D. Don

African falsenettle.

225849. *Boehmeria utilis* Diebard.**225850. *Ormosia* sp. Fabaceae.**

From Jamaica. Seed presented by the Institute of Jamaica, Kingston. Received May 20, 1955.

**225851. *Vernonia anthelmintica* Willd. Asteraceae.****Kinkaoil ironweed.**

From India. Seeds presented by the Indian Agricultural Research Institute, New Delhi. Received May 20, 1955.

**225852 to 225872.**

From Denmark. Seeds presented by J. E. Ohlsens Enke, Copenhagen. Received May 20, 1955.

225852 and 225853. *Brassica oleracea* var. *botrytis* L. Brassicaceae.

Cauliflower.

225852. 'Erfurt No. 118'.

225853. 'Snowball'.

225854 to 225862. *Brassica oleracea* var. *capitata* L.

Cabbage.

225854. 'Gluckstadt'.

225855. 'Golden Acre No. 84'.

225856. 'Golden Acre No. 409'. (Very early.)

225857. 'Jersey Wakefield No. 422'.

**225852 to 225872—Continued****225854 to 225862—Continued**

225858. 'Kissendrup No. 217'. (Red).

225859. 'Primavera'.

225860. 'September'.

225861. 'Triumph'.

225862. 'Winningstadt'.

225863 to 225865. *BRASSICA OLERACEA* var. *GONGYLODES* L.**Kohlrabi.**

225863. 'Ozean'.

225864. 'Treib Blue'.

225865. 'Treib White'.

225866 to 225872. *DAUCUS CAROTA* L. Apiaceae.**Carrot.**

225866. 'Amager No. 23'.

225870. 'Nantes No. 20'.

225867. 'Amsterdam No. 378'.

225871. 'Nantes No. 38'.

225868. 'Chantenay Red Core  
No. 36'.

225872. 'Touchon No. 26'.

225869. 'Gonsenheimer No. 412'.

**225873. COFFEA LIBERICA** Bull. Rubiaceae.**Liberian coffee.**

From Honduras. Seeds presented by K. J. Davidson, Lancetilla. Received May 23, 1955.

**225874 to 225936.**

From Africa. Seeds collected by J. S. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 23, 1955.

Collected March and April, 1955.

**225874 and 225875. ALYSICARPUS RUGOSUS** (Willd.) DC. Fabaceae.

225874. Col. No. 156. Victoria Falls, Northern Rhodesia. Upright, to 5 feet high.

225875. Col. No. 217. Open field near Tabora, Tanganyika. Plants upright, to 5 feet high.

**225876. BEGONIA** sp. Begoniaceae.

Col. No. 202. Garden, Abercorn, Northern Rhodesia. Plant to 4 feet high; flowers bright red.

**225877. CAESALPINIA SEPIARIA** Roxb. Caesalpinaceae.**Mysore thorn.**

Col. No. 198. Growing in hedge, Abercorn, Northern Rhodesia. Bush to 15 feet high.

**225878. CASSIA ABSUS** L. Caesalpinaceae.

Col. No. 137. Ten miles from Lusaka, Northern Rhodesia. Plant about 2 feet high.

**225879. CENCHRUS** sp. Poaceae.

Col. No. 205. In woods, 10 miles from Abercorn, Northern Rhodesia. Plant upright, to 4 feet high.

**225880. CHLORIS VIRGATA** Swartz Poaceae.

Col. No. 223. In park at Tabora, Tanganyika. To 4 feet high.

**225881. CROTALARIA INTERMEDIA** Kotschy Fabaceae.

Col. No. 187. Along road from Lusaka to Broken Hill, Northern Rhodesia. Plants to 5 feet high.

**225874 to 225936—Continued****225882.** *CROTALARIA* sp.

Col. No. 152. Along road near Victoria Falls, Northern Rhodesia. Plant sprawling.

**225883.** *CROTALARIA* sp.

Col. No. 162. In open woods, Victoria Falls, Northern Rhodesia. Prostrate annual.

**225884.** *CROTALARIA* sp.

Col. No. 184. Ten miles north of Lusaka, Northern Rhodesia. Plants to 5 feet high.

**225885.** *CROTALARIA* sp.

Col. No. 192. Twenty miles north of Mkushi, Northern Rhodesia. A sprawling, bushy plant, to 18 inches high.

**225886.** *CROTALARIA* sp.

Col. No. 194. Ten miles north of Lusaka, Northern Rhodesia. Plants about 3 feet high, bushy.

**225887.** *CROTALARIA* sp.

Col. No. 218. Edge of native garden, Tabora, Tanganyika. Plants to 4 feet high, upright, bushy.

**225888.** *CROTALARIA* sp.

Col. No. 225. Mpwapwa Experiment Station, Tanganyika. Plant small, semi-prostrate; good for grazing.

**225889.** *DACTYLOCTENIUM AEGYPTIUM* (L.) Beauv. Poaceae.**Durban crowfootgrass.**

Col. No. 182. Roadside, 30 miles east of Serenji, Northern Rhodesia. Plants to 18 inches high.

**225890.** *DESMODIUM TORTUOSUM* (Sw.) DC. Fabaceae.**Tickclover.**

Col. No. 208. In park Tabora, Tanganyika. Plant upright, to 3 feet high.

**225891.** *DIGITARIA* sp. Poaceae.

Col. No. 203. Seven miles from Abercorn, Northern Rhodesia. Grass to 2 feet high with rhizomes.

**225892.** *ELEUSINE CORACANA* (L.) Gaertn. Poaceae.**Ragi.**

Col. No. 196. Shiwa Ngandu, Northern Rhodesia. About 2 feet high.

**225893.** *ERIOSEMA* sp. Fabaceae.

Col. No. 117. Salisbury, Southern Rhodesia. Plants stiff, upright, to 2 feet high.

**225894.** *HETEROPOGON* sp. Poaceae.

Col. No. 94. Rocky hill, Salisbury, Southern Rhodesia. Plants to 2.5 feet high; upright bunchgrass.

**225895.** *HETEROPOGON* sp.

Col. No. 188. Roadside near Broken Hill, Northern Rhodesia. About 7 feet high.

**225896.** *HETEROPOGON* sp.

Col. No. 193. Around Abercorn, Northern Rhodesia. Plants to 4 feet high.

**225897 and 225898.** *INDIGOFERA ECHINATA* Willd. Fabaceae.**Indigo.****225897.** Col. No. 185. Roadside near Sirinji Experiment Station, Northern Rhodesia. Prostrate legume.**225898.** Col. No. 215. Around Tabora, Tanganyika. Plant spreading, to 3 feet high.



**225874 to 225936—Continued****225899.** *INDIGOFERA* sp.

Col. No. 177. Ten miles north of Lusaka, Northern Rhodesia. Plant prostrate, leafy; heavy seeder.

**225900.** *INDIGOFERA* sp.

Col. No. 214. Tabora, Tanganyika. Plant very prostrate, semivine.

**225901.** *INDIGOFERA* sp.

Col. No. 219. Open field near Tabora, Tanganyika. Plant upright, woody, to 4 feet high.

**225902.** *SESAMUM RADIATUM* Schum. Pedaliaceae.

Col. No. 106. Roadside near Salisbury, Southern Rhodesia.

**225903.** *SESAMUM* sp.

Col. No. 221. Tabora, Tanganyika. Plants to 5 feet high.

**225904.** *SETARIA* sp.

Col. No. 143. Experiment Station, 10 miles from Lusaka, Northern Rhodesia. Plant 4 feet high, with about 10 stems.

**225905.** *SORGHUM ARUNDINACEUM* (Willd.) Stapf Poaceae. **Kamerungrass.**

Col. No. 178. Road between Lusaka and Broken Hill, Northern Rhodesia. Plants to 8 feet high.

**225906.** *SORGHUM VULGARE* Pers. Poaceae.

Col. No. 138. Ten miles from Lusaka, Northern Rhodesia. Plants to 8 feet high.

**225907.** *SORGHUM VERSICOLOR* Anderss.

Col. No. 146. Around Victoria Falls, Northern Rhodesia. Plants to 7 feet high.

**225908 and 225909.** *SPOROBOLUS PYRAMIDALIS* Beauv. Poaceae.

**Whorled dropseed.**

**225908.** Col. No. 222. Park at Tabora, Tanganyika. Plants to 6 feet high.

**225909.** Col. No. 40. Pretoria, Transvaal. Plant wild, along roadside, about 3 feet high.

**225910.** *STYLOSANTHES* sp. Fabaceae.

Col. No. 206. In park at Tabora, Tanganyika. Plants semiprostrate, to 4 feet high; flowers light yellow.

**225911.** *TEPHROSIA* sp. Fabaceae.

Col. No. 115. Tobacco Research Land, Salisbury, Southern Rhodesia. Plants prostrate, spreading, to 4 feet high.

**225912.** *TEPHROSIA* sp.

Col. No. 116. Tobacco Research Station, 10 miles south of Salisbury, Southern Rhodesia. Plant very prostrate.

**225913.** *TEPHROSIA* sp.

Col. No. 140. Bank 8 miles from Lusaka, Northern Rhodesia. Plant to 24 inches high, semitrailing.

**225914.** *TEPHROSIA* sp.

Col. No. 166. Near Victoria Falls, Northern Rhodesia. Small vine to 6 feet high: forms dense mass.

**225915.** *TEPHROSIA* sp.

Col. No. 191. Along roadside 20 miles north of Lusaka, Northern Rhodesia. Bushy, woody legume, to 4 feet high.

**225916.** *TEPHROSIA* sp.

Col. No. 207. In park at Tabora, Tanganyika. Plant prostrate, stems about 3 feet long.

**225874 to 225936—Continued****225917. TEPHROSIA sp.**

Col. No. 216. Park at Tabora, Tanganyika. Plants upright, about 4 feet high.

**225918. TEPHROSIA sp.**

Col. No. 161. Near Victoria Falls, Northern Rhodesia. Plants to 2 feet high.

**225919. TETRASTIGMA sp. Vitaceae.**

Col. No. 150. Herbaceous vines climbing on trees in open woods near Victoria Falls; soil poor, dry; fruit in clusters, up to 0.5 inch in diameter; roots tuberous; not frost hardy. For breeding work and cytogenetic studies.

**225920. TRICHOLAENA REPENS (Willd.) Hitchc. Poaceae. Natalgrass.**

Col. No. 199. Near Mpkia on roadside, Northern Rhodesia. Plants to 3 feet high; panicles more dense than usual.

**225921 to 225923. VIGNA SINENSIS (Torner) Savi Fabaceae. Common cowpea.**

**225921.** Col. No. 135. East Africa. Plant rather hardy, used as cover crop.

**225922.** Col. No. 136. Lusaka, Northern Rhodesia. Used as cover crop.

**225923.** Col. No. 186. Twenty miles north of Broken Hill, Northern Rhodesia.

Vines vigorous, to 15 feet long.

**225924. VIGNA sp.**

Col. No. 113. Near Tobacco Research Station, Salisbury, Southern Rhodesia. Prostrate plant, spreading to 4 feet.

**225925. VIGNA sp.**

Col. No. 134. Field, 10 miles from Lusaka, Northern Rhodesia.

**225926. VIGNA sp.**

Col. No. 163. Near Victoria Falls, Northern Rhodesia. Vines spreading about 10 feet.

**225927. VIGNA sp.**

Col. No. 181. On roadside 20 miles north of Lusaka, Northern Rhodesia. Vines large, wild, to 15 feet long.

**225928. VIGNA sp.**

Col. No. 183. Roadside 10 miles north of Lusaka, Northern Rhodesia. Vines climbing on bushes, to 15 feet long.

**225929. VIGNA sp.**

Col. No. 200. Abercorn, Northern Rhodesia. Vines up to 10 feet long.

**225930 and 225931. ZORNIA DIPHYLLA (L.) Pers. Fabaceae.**

**225930.** Col. No. 102. Ten miles from Salisbury, Southern Rhodesia. Prostrate legume.

**225931.** Col. No. 153. Victoria Falls, Northern Rhodesia. Common legume in fields and open woods.

**225932. (Undetermined.) Fabaceae.**

Col. No. 96. Forty miles east of Salisbury, Southern Rhodesia. Legume to 3 feet high.

**225933. (Undetermined.)**

Col. No. 104. Ten miles from Salisbury, Southern Rhodesia. Trailing legume to 7 feet long. Flowers red and yellow, fairly large.

**225934. VIGNA VEXILLATA (L.) A. Rich. Fabaceae.**

Col. No. 133. Ten miles from Lusaka, Northern Rhodesia. Vines up to 10 feet long.

**225874 to 225936—Continued****225935.** (Undetermined.)

Col. No. 139. Five miles from Lusaka, Northern Rhodesia. Vines about 8 feet long.

**225936.** (Undetermined.)

Col. No. 164. Near Victoria Falls, Northern Rhodesia. Vines ornamental; berries deep red, about 0.5 inch in diameter.

**225937. DAUCUS CAROTA L. Apiaceae. Carrot.**

From Sweden. Seeds presented by Sveriges Utsadesforening, Svalov. Received May 25, 1955.

**225938 to 225953.**

From Iran. Plant material collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 24, 1955.

Collected May, 1955.

**225938. APLUDA sp. Poaceae.**

Col. No. 14815. Thirty miles south of Sirjan, along road to Bandar-Abbas. Sand wash in level valley. Elevation 5,800 feet. Perennial forming large clumps. (Plants.)

**225939. ARISTIDA sp. Poaceae.**

Col. No. 14825. Fifty-eight miles south of Sirjan along road to Bandar-Abbas. Elevation 6,400 feet. Small xerophytic perennial. (Plants.)

**225940. CYMBOPOGON sp. Poaceae.**

Col. No. 14824. Fifty-eight miles south of Sirjan along road to Bandar-Abbas. Elevation 6,400 feet. Perennial xerophyte in scattered tufts. (Plants.)

**225941. CYNODON DACTYLON (L.) Pers. Poaceae. Bermudagrass.**

Col. No. 14841. From Bradsu, very dry region. (Stolons.)

**225942. ENNEAPOGON sp. Poaceae.**

Col. No. 14826. Fifty-eight miles south of Sirjan along road to Bandar-Abbas. Elevation 6,400 feet. Tufted perennial on dry rocky slopes. (Plants.)

**225943. IRIS sp. Iridaceae.**

Col. No. 14834. Range plot in Sirjan Valley. Scattered in clumps on open plain. (Plants.)

**225944. IRIS sp.**

Col. No. 14839. About 21 miles east of Sirjan along road to Kerman. Elevation 8,000 feet. Flowers lavender, some with inner segments purple. (Plants.)

**225945. ORYZOPSIS HOLCIFORMIS (Bieb.) Hack. Poaceae. Ricegrass.**

Col. No. 14809. Thirty-six miles southeast of Kerman along road to Bam. Elevation 8,800 feet. Perennial; culms brittle, soft. (Plants.)

**225946 to 225948. POA BULBOSA L. Poaceae. Bulbous bluegrass.****225946.** Col. No. 14812. Thirty-six miles southeast of Kerman along road to Bam. Elevation 8,800 feet. Grows among rocks. (Plants.)**225947.** Col. No. 14810. Thirty-six miles southeast of Kerman along road to Bam. Perennial. (Plants.)**225948.** Col. No. 14811. Thirty-six miles southeast of Kerman along road to Bam. Elevation 8,800 feet. Perennial; stems taller and more succulent than Col. No. 14810. (Plants.)

**225938 to 225953—Continued****225949.** *STIPA* sp. Poaceae.

Col. No. 14814. Thirty miles south of Sirjan along road to Bandar-Abbas. Elevation 5,800 feet. Perennial; crown small, leafy; in scattered tufts. Grazed only by gazelles. (Plants.)

**225950.** *STIPA* sp.

Col. No. 14828. Fifty-eight miles south of Sirjan along road to Bandar-Abbas. Elevation 6,400 feet. Xerophytic perennial on rocky slopes in ungrazed area. (Plants.)

**225951.** *STIPA* sp.

Col. No. 1. From between Bardesir and Sirjan, in very dry region. (Stolons.)

**225952.** (Undetermined.) Apiaceae.

Col. No. 14813. Thirty-six miles southeast of Kerman along road to Bam. Elevation 8,400 feet. Herb; attractive perennial; roots deep; leaves feathery, glaucous, appressed to ground.

**225953.** (Undetermined.) Poaceae.

Col. No. 14827. Fifty-eight miles south of Sirjan along road to Bandar-Abbas. Elevation 6,400 feet. Perennial xerophytic grass. (Plants.)

**225954 to 225958.**

From Ethiopia. Stolons collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received May 25, 1955.

Collected May, 1955.

**225954.** *CYNODON* sp. Poaceae.

Col. No. 351. Thirty miles south of Sciasciamanna, near Lake Abaya. Plant stoloniferous but not rhizomatous; well adapted to dry conditions; heavily grazed.

**225955.** *CYNODON* sp.

Col. No. 352. Five miles north of Sciasciamann. Very important grazing area.

**225956.** *CYNODON DACTYLON* (L.) Pers.**Bermudagrass.**

Col. No. 353. Near Lake Langana. Growing in shallow limestone soil among rocks; heavily grazed.

**225957.** *CYNODON* sp.

Col. No. 354. Sciasciamanna. Plant stoloniferous; stems purple; leaves hairy; vigorous growth in moist red soil.

**225958.** *CYNODON* sp.

Col. No. 355. Addis Ababa. Growing in good red soil along side streets; sometimes mixed with 'Kikuyu' grass; heavily grazed.

**225959 to 225966.**

From Egypt. Seeds presented by the United States Operations Mission to Egypt, Cairo. Received May 25, 1955.

**225959.** *CONVOLVULUS LANATUS* Vahl Convolvulaceae.

Soil dry, sandy, 3 to 6 inches annual rainfall; plant winter grown; highly palatable.

**225960.** *DACTYLIS GLOMERATA* var. *HISPANICA* (Roth) Duby Poaceae.

Growing in medium to heavy soil, 3 to 6 inches annual rainfall; important forage plant.

**225961.** *KOCHIA INDICA* Wight Chenopodiaceae.

Annual, to 6 feet high; germinates on winter rainfall of 3 to 6 inches; fairly palatable forage. Originally from India.



**225959 to 225966—Continued**

**225962.** *MORICANDIA NITENS* Dur. & Barr. Brassicaceae.

Shrub, highly palatable forage; excellent stand obtained with 3 to 7 inches annual rainfall.

**225963.** *PITURANTHOS TORTUOSUS* (DC.) Benth. & Hook. f. Apiaceae.

Shrub, palatable; grows with annual rainfall from 1 to 6 inches.

**225964.** *PLANTAGO ALBICANS* L. Plantaginaceae. **Plantain.**

Perennial; to 24 inches high; important source of sheep forage in west Egypt; prefers sandy soil; annual rainfall 3 to 6 inches.

**225965.** *POLYGONUM EQUISETIFORME* Sibth. & Smith. Polygonaceae. **Knotweed.**

Woody perennial. An important forage plant in soil of all textures; rainfall 3 to 6 inches.

**225966.** *STIPA LAGASCAE* Roem. & Schult. Poaceae. **Needlegrass.**

**225967 to 225970.** *NICOTIANA TABACUM* L. Solanaceae. **Tobacco.**

From Yugoslavia. Seeds presented by the American Embassy, Belgrade. Received May 25, 1955.

**225967.** 'Bubalovac No. 2'. Growing season somewhat longer than 150 days.

**225968.** 'Mresko No. 4'. Late maturing; yields abundantly.

**225969.** 'Ravnjak No. 1'. Growing season from 120 to 150 days.

**225970.** 'Tance No. 3'. Matures earlier than 120 to 150 days.

**225971 to 225982.** *NICOTIANA TABACUM* L. Solanaceae. **Tobacco.**

From Yugoslavia. Seeds presented by the Tobacco Institute, Belgrade. Received May 25, 1955.

**225971.** 'Bajina Basta Jaka No. 8'. Grown in Serbia, Bajina Basta Region.

**225972.** 'Blatec No. 5'. Grown in Macedonia.

**225973.** 'Debrecin No. 12'. Grown in Serbia.

**225974.** 'Jaka Kireciler No. 1'. Grown in Macedonia and Serbia.

**225975.** 'Nova Crnja No. 11'. Grown in Serbia.

**225976.** 'Otlja No. 3'. Grown in Macedonia and Serbia.

**225977.** 'Prilep No. 2'. Grown in Macedonia and Serbia.

**225978.** 'Prosocani No. 9a and 9b'. Grown in Krusevac-Krusevacki Prosocan and Zitkovac Regions.

**225979.** 'Ravnjak No. 6'. Grown in Bosnia, Herzegovina, Montenegro and Croatia.

**225980.** 'Segedin Rose No. 10'. Grown in Serbia, Vojvodina Region.

**225981.** 'Tance No. 7'. Grown in Bosnia, Herzegovina, Montenegro, and Croatia.

**225982.** 'Zletovo No. 4'. Grown in Macedonia.

**225983.** *ORMOSIA KRUGII* Urban Fabaceae.

From Puerto Rico. Seeds presented by the United States Forest Service, Rio Piedras. Received May 25, 1955.

No. 1.

**225984.** *CALLUNA VULGARIS* (L.) Salisb. Ericaceae. **Scotch heather.**

From Great Britain. Seeds presented by Thompson and Morgan, Limited, Ipswich, England. Received May 26, 1955.

**225985 to 226002.**

From Japan. Seeds presented by the Kyushu University, Fukuoka. Received May 26, 1955.

- 225985.** *AGROPYRON SEMICOSTATUS* (Steud.) Nees ex Boiss. Poaceae. Drooping wheatgrass.

'Kamojigusa'.

- 225986.** *ARTHAXON HISPIDUS* (Thunb.) Makino. Poaceae.

'Kobunagusa'.

- 225987.** *ARUNDINELLA* sp. Poaceae.

'Todashiba'.

- 225988.** *BROMUS PAUCIFLORUS* (Thunb.) Hack. Poaceae. Brome.

'Kitsunegaya'.

- 225989.** *CYNODON DACTYLON* (L.) Pers. Poaceae. Bermudagrass.

'Gyogishiba'.

- 225990.** *DIGITARIA CILIARIS* (Retz.) Koel. Poaceae. Crabgrass.

'Mehishiba'.

- 225991.** *INDIGOFERA PSEUDOTINCTORIA* Mats. Fabaceae. Indigo.

'Komatsunagi'.

- 225992.** *MISCANTHUS SINENSIS* Anderss. Poaceae. Chinese silvergrass.

'Murasakisusuki'.

- 225993.** *MUHLENBERGIA JAPONICA* Steud. Poaceae. Muhly.

'Nezumigaya'.

- 225994.** *OPLISMENUS UNDULATIFOLIUS* (Ard.) Roem. & Schult. Poaceae.

'Chizimizasa'.

- 225995.** *PANICUM BISULCATUM* Thunb. Poaceae.

'Nukakibi'.

- 225996.** *PASPALUM THUNBERGHII* Kunth Poaceae.

'Suzumenohie'.

- 225997.** *PENNISETUM JAPONICUM* Trin. Poaceae.

'Chikarashiba'.

- 225998.** *SETARIA VIRIDIS* (L.) Beauv. Poaceae. Green bristlegrass.

'Enokorogusa'.

- 225999.** *SPOROBOLUS ELONGATUS* R. Br. Poaceae.

'Nezumino'.

- 226000.** *VICIA CRACCA* L. Fabaceae. Bird vetch.

'Kusafuji'.

- 226001.** *VICIA NIPPONICA* Matsum. Vetch.

'Yotsubahagi'.

- 226002.** *VICIA* sp.

'Oobakusafuji'.

- 226003.** *MALUS SYLVESTRIS* Mill. Malaceae. Apple.

From the Union of South Africa. Cuttings presented by Magnus V. Hopkins, Lan-gerug, Worcester, Cape Province. Received May 27, 1955.

'Caroline Hopkins'.

**226004 to 226007. CHENOPODIUM PALLIDICAULE Aellen** Chenopodiaceae.

From Peru. Seeds presented by the Agricultural Experimentation Mission, American Embassy, Lima. Received May 27, 1955.

Collected at Huancayo.

**226004.** 'Morado'.

**226006.** White.

**226005.** 'Rosada'.

**226007.** Yellow strain.

**226008 and 226009.**

From Australia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received May 27, 1955.

**226008.** LATHYRUS OCHRUS (L.) DC. Fabaceae.

**Peavine.**

'Louvana'. Originally from Palestine.

**226009.** SORGHUM SUDANENSE (Piper) Staf Poaceae.

**Sudangrass.**

S.S.6. Selected from 'Barkers Cut Sweet Sudan' in 1945. Originally from the Agricultural Experiment Station, College Station, Tex.

**226010 to 226012. CYNODON PLECTOSTACHYUS (Schum.) Pilg.** Poaceae.

From Southern Rhodesia. Seeds presented by the Department of Research and Specialist Services, Causeway. Received May 27, 1955.

**226010.** 'Mount Elgon Star'. No. 2620.

**226011.** 'Naivasha Star'. No. 2621.

**226012.** 'Star Grass No. 2'. No. 2619.

**226013 to 226027. HELIANTHUS ANNUUS L.** Asteraceae. **Sunflower.**

From Peru. Seeds presented by the United States Operations Mission, Lima. Received May 27, 1955.

**226013.** 'Klein'. Originally from Argentina.

**226014.** 'La Estanzuela'.

**226015.** 'Mammoth Russian'.

**226016.** 'Sunrise'. Originally from Canada.

**226017.** LM 54-55-20  $\times$  s 37-388 I.

**226018.** LM 54-55-11  $\times$  s 37-388 II.

**226019.** LM 54-55-15  $\times$  S 37-388 II.

**226020.** LM 54-55-11  $\times$  S 37-388 III.

**226021.** LM 54-55-8  $\times$  'Sunrise III'.

**226022.** LM 55-55-6  $\times$  'Sunrise III'.

**226023.** LM 55-55-5  $\times$  'Sunrise VI'.

**226024.** LM 55-55-1  $\times$  'Sunrise VI'.

**226025.** LM 55-55-1  $\times$  'Sunrise VII'.

**226026.** 'F1 Mammoth Russian'.

**226027.** 'F2 Mammoth Russian'  $\times$  953-102.

**226028 to 226030 CARICA PAPAYA L.** Caricaceae.

**Papaya.**

From Peru. Seeds presented by the United States Operations Mission, Lima. Received May 27, 1955.

Collected by A. F. Riefsnyder, Ahuaytia River Mission, near Tingo Maria.

**226028.** No. 1.

**226029.** No. 2.

**226030.** No. 3.

**226031 and 226032.**

From Austria. Seeds presented by the Hoyos Sprinzenstein'sche Forstversaltung, Gutenstein. Received May 31, 1955.

**226031.** *PINUS NIGRA* var. *AUSTRIACA* (Hoess) C. Schneid. Pinaceae.

**Austrian pine.**

**226032.** *PINUS SYLVESTRIS* L.

**Scotch pine.**

**226033 to 226036** *PHASEOLUS VULGARIS* L. Fabaceae. **Common bean.**

From Switzerland. Seeds presented by Tatter Samen, Bern. Received May 31, 1955.

**226033.** No. A.

**226035.** No. 8.

**226034.** No. C.

**226036.** No. 12.

**226037 to 226042.**

From the Canary Islands. Seeds presented by the Jardin de Acclimatacion, Puerto de Cruz Tenerife. Received May 31, 1955.

**226037.** *DATURA CONIGERA* Hook. Solanaceae.

**Horned datura.**

**226038.** *DATURA INSIGNIS* Barb. Rodr.

**226039.** *DATURA SANGUINEA* Ruiz. & Pav.

**Red floripondia.**

**226040.** *DATURA SUAVEOLENS* Humb. & Bonpl.

**Angeltears datura.**

**226041.** *DATURA* sp.

**226042.** *DATURA* sp.

**226043.** *DAUCUS CAROTA* L. Apiaceae.

**Carrot.**

From Japan. Seeds presented by the Akita Agricultural Experiment Station, Izumi, Akita. Received June 1, 1955.

'San Nai No. 1954.8'.

**226044.** *MYRICA CERIFERA* L. Myricaceae.

From Nicaragua. Seeds presented by the Ministry of Agriculture, Managua. Received June 1, 1955.

Grown at altitudes of 2,000 to 3,000 feet in poor soil. Seeds used in soap manufacture and for medicinal purposes.

**226045.** *STIPA TENACISSIMA* L. Poaceae.

**Needlegrass.**

From Morocco. Seeds presented by the Center de Recherches Agronomiques, Rabat. Received June 1, 1955.

**226046 to 226106.**

From British East Africa. Seeds collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 1, 1955.

From Kitale, Kenya, unless otherwise noted. April 29, 1955.

**226046.** *ANDROPOGON CHRYSOSTACHYS* Steud. Poaceae.

**Bluestem.**

Col. No. 254. K. 52475. Vigorous bunchgrass.

**226047.** *ANDROPOGON SCHINZII* Hack.

**Bluestem.**

Col. No. 257. K. 52354. Tufted perennial.

**226048.** *BECKEROPSIS UNISETA* K. Schum. Poaceae.

Col. No. 258. K. 52497. Tall tufted perennial.

**226049 and 226050.** *BRACHIARIA BRIZANTHA* (Hochst.) Stapf Poaceae.

**Palisade signalgrass.**

**226049.** Col. No. 259. K. 52324. Semi-erect; hardy selection.

**226050.** Col. No. 288. K. 52320. Heavy-producing, low spreading type.



**226046 to 226106—Continued**

- 226051.** *CENCHRUS SETIGERUS* Vahl Poaceae. Sandbur.  
Col. No. 291. K. 53636. Tufted perennial; good yielding type.
- 226052.** *CHLORIS GAYANA* Kunth Poaceae. Rhodesgrass.  
Col. No. 274. K. 51232. 'Giant Emson' strain.
- 226053.** *CROTALARIA* sp. Fabaceae.  
Col. No. 179. Roadside about 10 miles from Sirinji Experiment Station, Northern Rhodesia. Mar. 31, 1955. Plants woody, to 8 feet in height.
- 226054.** *CROTALARIA* sp.  
Col. No. 337. K. 53605. Erect bushy annual.
- 226055 to 226062.** *CYNODON DACTYLON* (L.) Pers. Poaceae. Bermudagrass.  
**226055.** Col. No. 277. K. 51415. Fairly good seeder, large type.  
**226056.** Col. No. 278. K. 51407. Fine type.  
**226057.** Col. No. 279. K. 52471. Medium type.  
**226058.** Col. No. 280. K. 51431. Medium type.  
**226059.** Col. No. 281. K. 52447. Medium type.  
**226060.** Col. No. 282. K. 52462.  
**226061.** Col. No. 287. K. 52416.  
**226062.** Col. No. 294. K. 51432. Medium type.
- 226063.** *CYNODON* sp.  
Col. No. 283. K. 52424.
- 226064.** *CYNODON* sp.  
Col. No. 284. K. 52350.
- 226065.** *ECHINOCHLOA HAPLOCLADA* Stapf Poaceae.  
Col. No. 260. K. 53542. A promising selection.
- 226066.** *ECHINOCHLOA PYRAMIDALIS* (Lam.) Hitchc. & Chase  
Col. No. 270. K. 52469. A promising selection.
- 226067.** *ELEUSINE MULTIFLORA* Hochst. Poaceae.  
Col. No. 293. K. 54142.
- 226068.** *ENTEROPOGON MACROSTACHYUS* Benth. Poaceae.  
Col. No. 256. K. 53523. Tufted perennial.
- 226069.** *ERAGROSTIS CAESPITOSA* Chiov. Poaceae. Lovegrass.  
Col. No. 268. K. 5267. Small tufted perennial; promising for grazing; good yielder.
- 226070.** *ERAGROSTIS CHLOROMELAS* Steud. Lovegrass.  
Col. No. 292. K. 50150. Vigorous tufted perennial.
- 226071 and 226072.** *ERAGROSTIS CURVULA* (Schrud.) Nees Lovegrass.  
**226071.** Col. No. 267. K. 5268. Selection from Nairobi, heavy producer and vigorous.  
**226072.** Col. No. 269. K. 5585. Vigorous type from Southern Rhodesia.
- 226073.** *ERAGROSTIS LEHMANNIANA* Nees Lovegrass.  
Col. No. 253. K. 50148. Originally from Tanganyika. Makes vigorous growth; semiprostrate.

**226046 to 226106—Continued**

- 226074.** *ERAGROSTIS SUPERBA* Peyt. Lovegrass.  
Col. No. 266. K. 53836. Plant vigorous.
- 226075 and 226076.** *HYPARRHENIA LINTONII* Stapf Poaceae.  
**226075.** Col. No. 272. Dense, bunch type; leaves short, fine.  
**226076.** Col. No. 275. K.52352. Smallest type; leaves fine, dense, bunchgrass.
- 226077.** *LEPTOCHLOA OBTUSIFLORA* Hochst. Poaceae.  
Col. No. 262. K.5133. Tufted perennial.
- 226078.** *MEDICAGO ORBICULARIS* (L.) All. Fabaceae. Buttonclover.  
Col. No. 313. K.53606. Vigorous annual.
- 226079 and 226080.** *MELINIS MINUTIFLORA* Beauv. Poaceae. Molassesgrass.  
**226079.** Col. No. 263. K.52294. Vigorous, local selection.  
**226080.** Col. No. 264. K.54149. One of the better strains.
- 226081 to 226084.** *PANICUM MAXIMUM* Jacq. Poaceae. Guineagrass.  
**226081.** Col. No. 289. K.50201. Yield good.  
**226082.** Col. No. 293. K.52128. Large type; yield good.  
**226083.** Col. No. 297. K.51363. Vigorous; yield heavy.  
**226084.** Col. No. 298. K.51343. Malaba strain; vigorous selection.
- 226085.** *PANICUM SWYNNERTONII* Rendle  
Col. No. 295. K.53223.
- 226086.** *PANICUM* sp.  
Col. No. 147. Near Victoria Falls, Northern Rhodesia. Mar. 27, 1955. Perennial grass to 18 inches high.
- 226087 to 226090.** *PENNISETUM CILIARE* (L.) Link Poaceae. Buffelgrass.  
**226087.** Col. No. 255. K.52131. Yield heavy.  
**226088.** Col. No. 261. K.5146. Low-growing, dense bunch type; leaves fine, tender.  
**226089.** Col. No. 285. K.5148. Upright type; yield good.  
**226090.** Col. No. 286. K.52232. Selected for vigorous yield.
- 226091.** *PENNISETUM POLYSTACHION* (L.) Schult. Poaceae.  
Col. No. 290. K.53532. Promising for grazing; tufted perennial.
- 226092.** *RUMEX* sp. Polygonaceae.  
Col. No. 189. Along roadside between Broken Hill and Serenje, Northern Rhodesia. Mar. 30, 1955. Plants to 8 feet high.
- 226093.** *SACCIOLEPIS* sp. Poaceae.  
Col. No. 233. Mbsumo Experiment Station, Northern Rhodesia. Apr. 4, 1955. Growing around edge of pond.
- 226094.** *SESBANIA CINERASCENS* Welw. Fabaceae.  
Col. No. 190. Near Mkushi, Northern Rhodesia. Plants to 20 feet high, 3 inches in diameter; profusely branched; flowers yellow; soil wet.
- 226095.** *SETARIA SPHACELATA* (Schum.) Stapf & Hubb. Poaceae. Millet.  
Col. No. 299. K.53175. 'Nandi'. Vigorous, leafy type; yield heavy.
- 226096.** *SORGHUM VERTICILLIFLORUM* (Steud.) Stapf Poaceae.  
Col. No. 265. K.50188. Perennial type.

**226046 to 226106—Continued**

226097. *SORGHUM VULGARE* Pers. Poaceae.

Col. No. 273.

226098. *SPOROBOLUS PHYLLOTRICHUS* Hochst. Poaceae. **Dropseed.**

Col. No. 271. K.5279. Perennial, dense low cover. Promising for grazing in dry area where other grasses do not thrive.

226099. *STIZOLOBIUM* sp. Fabaceae.

Col. No. 302. K.52286. Local variety used as cover crop.

226100. *TRIFOLIUM ALEXANDRINUM* L. Fabaceae. **Berseem clover.**

Col. No. 332. K.52184.

226101. *TRIFOLIUM CHERANGANIENSE* Gillett **Clover.**

Col. No. 330. K.50112. Semi-prostrate or creeping perennial.

226102. *TRIFOLIUM REPENS* L. **Whiteclover.**

Col. No. 329. K.5181. Drought resistant.

226103. *UROCHLOA BOLBODES* (Steud.) Stapf Poaceae.

Col. No. 276. K.50165. Tufted perennial; originally from Tanganyika.

- 226104 and 226105. *VIGNA SINENSIS* (Torner) Savi Fabaceae. **Common cowpea.**

226104. Col. No. 314. K.53927. Used for cover crop and food.

226105. Col. No. 325. K.53929. Commonly grown in native gardens for food.

226106. *VIGNA CYLINDRICA* (L.) Skeels **Catjang-pea.**

Col. No. 318. K.53928. Widely grown as food.

- 226107 and 226108. *THEOBROMA CACA* L. Sterculiaceae. **Cacao.**

From Costa Rica. Pods presented by the Instituto Inter-Americano de Ciencias Agricolas, Turrialba. Received June 2, 1955.

226107. No. 221.

226108. No. 667.

**226109 to 226150.**

From Japan. Plants collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 3, 1955.

Collected May, 1955.

- 226109 to 226111. *CAMELLIA JAPONICA* L. Theaceae. **Common camellia.**

226109. Col. No. 6. Wooded slope of Oonami-ike. Elevation 3,200 feet. Tree to 20 feet high, in full bloom; flowers 1.5 inches in diameter, single, red.

226110. Col. No. 7. Wooded slope of Oonami-ike. Elevation 3,800 feet. Tree to 20 feet high.

226111. Col. No. 8. Wooded slope of Oonami-ike. Elevation 4,100 feet. Large tree, about 8 inches in diameter; flowers red, single.

226112. *CLERODENDRUM* sp. Verbenaceae.

Col. No. 20. Hot Springs Utilization Station, above Beppu, Kyushu. Stems red; flowers carmine.

226113. *CREMASTRA* sp. Orchidaceae.

Col. No. 24. Mount Fudendake, Unsen. Elevation 4,300 feet. Terrestrial orchid; leaves lanceolate; basal flowers small, yellow.

- 226114 and 226115. *CRYPTOMERIA JAPONICA* (L.f.) D. Don Pinaceae. **Common cryptomeria.**

**226109 to 226150—Continued****226114 to 226115—Continued**

**226114.** Col. No. 37. 'Kinasugi'. Horticultural Field Station, Kurume, Kyushu. Dwarf form with yellow tips.

**226115.** Col. No. 38. Ho-o-sugi. Horticultural Field Station, Kurume, Kyushu. Form with frondlike branches.

**226116.** *EUONYMUS FORTUNEI* var. *RADICANS* (Mig.) Rehd. Celastraceae.

**Wintercreeper.**

Col. No. 23. Hot Springs Utilization Station, Beppu, Kyushu. Leaves variegated.

**226117.** *EUONYMUS JAPONICUS* L.

**Evergreen burningbush.**

Col. No. 22. 'Variegata'. Hot Springs Utilization Station, Beppu, Kyushu.

**226118.** *GARDENIA AUGUSTA* (L.) Merr. Rubiaceae.

Col. No. 39. Horticultural Field Station, Kurume, Kyushu. Dwarf variegated form.

**226119.** *HYDRANGEA SCANDENS* Maxim. Hydrangeaceae.

Col. No. 28. Mount Kojigoka, Kyushu. Elevation 3,200 feet. Species with large bracts.

**226120 to 226129.** *ILEX CRENATA* Thunb. Aquifoliaceae.

**Japanese holly.**

**226120.** Col. No. 9. Slope of Mount Ooname, at edge of crater. Elevation 4,200 feet. Plant upright, to 18 inches high; leaves very small.

**226121.** Col. No. 10. Open meadow at top of Mount Ooname. Elevation 4,700 feet. Plant dwarf; leaves small.

**226122.** Col. No. 14. Mount Korakum, Kirishima. Elevation 4,900 feet. Plant twiggy and slow-growing; leaves very small.

**226123 to 226128.** From Mount Miyoken, Kyushu. Elevation 4,350 feet.

**226123.** Col. No. 30. Upright habit; large-leaf form.

**226124.** Col. No. 31. Spreading; leaves medium size.

**226125.** Col. No. 32. Dense habit; leaves round.

**226126.** Col. No. 33. Upright habit; leaves narrow.

**226127.** Col. No. 34. Plant vigorous; leaves large.

**226128.** Col. No. 35. Dwarf habit; leaves small.

**226129.** Col. No. 43. Horticultural Field Station, Kurume, Kyushu. Leaves yellow-spotted.

**226130.** *IRIS PSEUDACORUS* L. Iridaceae.

**Yellowflag iris.**

Col. No. 21. Hot springs Utilization Station, Beppu, Kyushu. Flowers double, yellow.

**226131.** *ITEA JAPONICA* Oliv. Escalloniaceae.

Col. No. 19. Hot springs Utilization Station, Beppu, Kyushu. Dwarf form.

**226132.** *LYCORIS ALBIFLORA* Koidz. Amaryllidaceae.

Col. No. 36. Horticultural Field Station, Kurume, Kyushu.

**226133.** *OSMANTHUS FORTUNEI* Carr. Oleaceae.

Col. No. 41. Horticultural Field Station, Kurume, Kyushu. Variegated form.

**226134 and 226135.** *OSMANTHUS HETEROPHYLLUS* (G. Don) P. S. Green

**226134.** Col. No. 40. Horticultural Field Station, Kurume, Kyushu. Leaves dark green and white variegated.

**226135.** Col. No. 42. Horticultural Field Station, Kurume, Kyushu. Leaves pale green and white variegated.



**226109 to 226150—Continued****226136.** *PHOTINIA GLABRA* (Thunb.) Max. Malaceae.

Col. No. 44. Horticultural Field Station, Kurume, Kyushu. Form with brilliant red young growth.

**226137.** *ROSA* sp. Rosaceae.

Col. No. 4. Mount Sakurajima. Elevation 140 feet. Upright shrub, to 5 feet high; stems with some spines; young growth densely covered with reddish spines; flowers pink.

**226138.** *RHODODENDRON KEISKEI* Miq. Ericaceae.

Col. No. 25. Cliffs of Fuden-Dake. Elevation 4,280 feet. Typical form; flowers yellow.

**226139.** *RHODODENDRON OBTUSUM* (Lindl.) Planch.**Hiryu azalea.**

Col. No. 5. Mount Sakurajima. Elevation 260 feet. Shrub to 24 inches high. Winter leaves obovate, dark green; summer leaves more elliptic.

**226140 to 226142.** *RHODODENDRON OBTUSUM* var. *JAPONICUM* Wils.**Kurume azalea.****226140.** Col. No. 12. Summit of Mount Karakuni. Elevation 5,600 feet. Dense, twiggy plant, leaves ovate, covered with fine hairs; flowers purple.**226141.** Col. No. 51. Mount Kirishima. Elevation 5,400 feet. White form.**226142.** Col. No. 52. Mount Kirishima. Elevation 5,550 feet. Purple form.**226143.** *RHODODENDRON* sp.Col. No. 45. 'Soga'. From the Horticultural Field Station, Kurume, Kyushu. *Macrantha* type; flowers bicolor.**226144.** *RHODODENDRON* sp.

Col. No. 46. 'Miyuno-sake'.

**226145.** *RHODODENDRON* sp.

Col. No. 47. 'Dai-Shu-hai'. Flowers red outside, pink inside.

**226146.** *RHODODENDRON* sp.

Col. No. 48. 'Ho-sai'. Flowers purple with white center.

**226147.** *RHODODENDRON* sp.

Col. No. 49. 'Kagetsu-muji'. Bicolor.

**226148.** *RHODODENDRON* sp.

Col. No. 50. 'Shun-no-tsuki'. Bicolor.

**226149.** *SHORTIA SOLDANELLOIDES* (Sieb. & Zucc.) Mak. Diapensiaceae.

Col. No. 13. Summit of Mount Karakuni, Kirishima. Elevation 5,600 feet. Prostrate clumps springing from basal rootstock; leaves broad, ovate, margins of old leaves wavy; young foliage reddish; flowers pink, petals lacinate, borne on long red stalks.

**226150.** (Undetermined.) *Caprifoliaceae*.

Col. No. 18. Mount Ooname-ike. Elevation 4,540 feet. Flowers yellow, funnelform, campanulate.

**226151 to 226153** *ORYZA SATIVA* L. Poaceae.**Rice.**

From the Philippines. Seeds presented by the College of Agriculture, Manila. Received June 3, 1955.

**226151.** 'Milagrosa'.**226152.** 'Milbuen'.**226153.** 'Salak'.

**226154 to 226217 ORYZA SATIVA L. Poaceae.****Rice.**

From Japan. Seeds presented by the National Institute of Agricultural Science, Hiratsuka, Kanagawa. Received June 6, 1955.

- 226154. G.S. 223. 'Aichi-Asahi'.
- 226155. G.S. 224. 'Akatsuki-Mochi'.
- 226156. G.S. 225. 'Asahi-Mochi'.
- 226157. G.S. 578. 'Ayanishiki'.
- 226158. G.S. 226. 'Chikara-Senbon'.
- 226159. G.S. 579. 'Chukyo-Asahi'.
- 226160. G.S. 996. 'Chusei-Honen'.
- 226161. G.S. 897. 'Daikoku-ine'.
- 226162. G.S. 227. 'Fataba'.
- 226163. G.S. 237. 'Fuzisaka 1'.
- 226164. G.S. 238. 'Fuzisaka 2'.
- 226165. G.S. 575. 'Fuzisaka 3'.
- 226166. G.S. 576. 'Fuzisaka 4'.
- 226167. G.S. 577. 'Fuzisaka 5'.
- 226168. G.S. 900. 'Hakkoda'.
- 226169. G.S. 910. 'Ihara 5'.
- 226170. G.S. 919. 'Isao-Mochi'.
- 226171. G.S. 267. 'Kagoshima-Hakamuri 1'.
- 226172. G.S. 250. 'Kairyo-Mochi'.
- 226173. G.S. 306. 'Kidama'.
- 226174. G.S. 580. 'Kimmaze'.
- 226175. G.S. 229. 'Koganemaru'.
- 226176. G.S. 917. 'Koshiji-Wase'.
- 226177. G.S. 239. 'Kuhe 2'.
- 226178. G.S. 921. 'Miho III'.
- 226179. G.S. 251. 'Norin 9'.
- 226180. G.S. 946. 'Oura'.
- 226181. G.S. 947. 'Rikuto-Akagome-d'.
- 226182. G.S. 268. 'Rikuto-Norin 6'.
- 226183. G.S. 269. 'Rikuto-Norin 11'.
- 226184. G.S. 263. 'Rikuto-Norin 12'.
- 226185. G.S. 233. 'Rikuto-Norin 14'.
- 226186. G.S. 234. 'Rikuto-Norin 15'.
- 226187. G.S. 311. 'Rikuto -Norin 17'.
- 226188. G.S. 235. 'Rikuto-Norin 18'.
- 226189. G.S. 236. 'Rikuto-Norin 20'.
- 226190. G.S. 264. 'Rikuto-Norin 21'.
- 226191. G.S. 954. 'Rikuto-Norin-Mochi 26'.
- 226192. G.S. 948. 'Rikuto-Gaisen-Ibaraki 2'.
- 226193. G.S. 949. 'Rikuto-Jinriki 1'.
- 226194. G.S. 950. 'Rikuto-Kahei'.

**226154 to 226217—Continued**

- 226195. G.S. 951. 'Rikuto-Kemochi'.
- 226196. G.S. 952. 'Rikuto-Kirishima'.
- 226197. G.S. 953. 'Rikuto-Kumanoto 1'.
- 226198. G.S. 955. 'Rikuto-Shirohige'.
- 226199. G.S. 956. 'Rikuto-Terishirazu'.
- 226200. G.S. 958. 'Sakai-Kaneko'.
- 226201. G.S. 960. 'Sekitori'.
- 226202. G.S. 228. 'Senbon-Asahi'.
- 226203. G.S. 962. 'Sen-ichi'.
- 226204. G.S. 964. 'Shimizu-Mochi'.
- 226205. G.S. 276. 'Shinriki-Mochi'.
- 226206. G.S. 230. 'Shuho'.
- 226207. G.S. 973. 'Somewake'.
- 226208. G.S. 974. 'Taisho-Akaho 66'.
- 226209. G.S. 976. 'Takenari'.
- 226210. G.S. 980. 'Teruju'.
- 226211. G.S. 581. 'Tokai-Asahi'.
- 226212. G.S. 981. 'Tokai-Senbon'.
- 226213. G.S. 231. 'Tozan 38'.
- 226214. G.S. 255. 'Wase-Shirage'.
- 226215. G.S. 582. 'Yutaka-Senbon'.
- 226216. G.S. 990. 'Zennoo'.
- 226217. G.S. 265. 'Mubo-Aikoku'.

**226218 to 226227.**

From Iran. Plants and bulbs collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 6, 1955.

Collected May, 1955.

**226218. ANDROPOGON sp. Poaceae.**

Col. No. 14888. Musiabad, 90 km. west of Esfahan. Elevation 2,500 m. Limestone slope. Small leafy perennial.

**226219. HORDEUM sp. Poaceae.**

Col. No. 14890. Musiabad, 90 km. west of Esfahan. Elevation 2,500 m. Limestone slope. Plant tough, hardy, xerophytic, forming dark green clumps.

**226220. IRIS sp. Iridaceae.**

Col. No. 14908. Musiabad, 90 km. west of Esfahan. Elevation 2,500 m. Limestone rock slope. Short, caespitose plant, to 30 cm. high; flowers large, dark purple.

**226221. IRIS sp.**

Col. No. 14911. Chadegan, Faridan District. Elevation 2,470 m. Plant caespitose, to 20 cm. high; flowers large, purple-netted.

**226222. ORYZOPSIS sp. Poaceae.**

Col. No. 14889. Musiabad, 90 km. west of Esfahan. Elevation 2,500 m. Limestone rock slope. Plant tender-leaved perennial, sod-forming.

**226218 to 226227—Continued****226223 and 226224.** *POA BULBOSA* L. Poaceae.**Bulbous bluegrass.****226223.** Col. No. 14907. Musiabad, 90 km. west of Esfahan. Elevation 2,470 m. Limestone slope. Plant tufted perennial; leaves short, sparse; culms heavy with bulbils.**226224.** Col. No. 14909. Musiabad, 90 km. west of Esfahan. Elevation 2,500 m. Short-leaved perennial.**226225.** (Undetermined.) Poaceae.

Col. No. 14904. Musiabad, 90 km. west of Esfahan. Elevation 2,500 m. Limestone rock. Grass small, infrequent, perennial

**226226.** (Undetermined.) Poaceae.

Col. No. 14905. Near Musiabad, 90 km. west of Esfahan. Elevation 2,470 m. Saline meadow. Perennial grass forming a tight sod; closely grazed by sheep.

**226227.** (Undetermined.) Poaceae.

Col. No. 14906. Near Musiabad, 90 km. west of Esfahan. Elevation 2,500 m. Tufted perennial grass.

**226228 to 226232.**

From Japan. Seeds collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 6, 1955.

Collected May, 1955.

**226228.** *CITRUS SINENSIS* (L.) Osbeck Rutaceae.**Sweet orange.**

Col. No. 53. 'Matsudaidai'. Market, Kurume, Kyushu. Summer type.

**226229.** *DIOSCOREA* sp. Dioscoreaceae.

Col. No. 1. 'Tukoro-imo'. Mount Sakurajima, Kagoshima Prefecture. Elevation 50 m. Small vine to 6 m. long.

**226230.** *DIOSCOREA* sp.

Col. No. 26. Mount Kojigoku, Kyushu. Elevation 700 m.

**226231.** *DIOSCOREA* sp.

Col. No. 27. Mount Kojigoku, Kyushu.

**226232.** *RUBUS* sp. Rosaceae.

Col. No. 2. Mount Sakurajima. Elevation 60 m. Growing among lava rocks.

**226233 to 226242.** *VITIS* (hybrids). Vitaceae.

From Texas. Plants growing at the Agricultural Experiment Substation, Montague. Received June 7, 1955.

**226233 to 226236.** Native varieties.**226233.** T.S. 23978. 'Rupestris Ganzin'.**226234.** T.S. 22382. 'Live Oak No. 2'.**226235.** T.S. 22381. 'La Pryor No. 4'.**226236.** T.S. 23017. 'Leona No. 5'.**226237 to 226242.** French-American hybrids from the Schroeder Vinyard, Hutchinson, Kansas.**226237.** T.S. 34123. 'Seibel 6905'.**226238.** T.S. 34124. 'Seibel 11803'.**226239.** T.S. 34127. 'Conderc 7120'.**226240.** T.S. 34128. 'Seyve-Villard 5-276'.



**226233 to 226242—Continued****226237 to 226242—Continued**

226241. T.S. 34130. 'Seyve-Villard 12-347'.

226242. T.S. 34134. 'Ravat 34'.

**226243 to 226248.**

From New Zealand. Scions presented by the Fruit Research Station, Plant Diseases Division, Auckland. Received June 7, 1955.

226243 and 226244. *PRUNUS PERSICA* (L.) Batsch Amygdalaceae. **Peach.**

226243. 'Golden Queen Improved'.

226244. 'Old Mission'.

226245. *PRUNUS* sp.

'Healey's Peacharine'.

226246. *PRUNUS* sp.

'Jenkins Seedling Plum'.

226247 and 226248. *PYRUS COMMUNIS* L. Malaceae. **Pear.**

226247. 'Livingston'. A seedling from 'Winter Nelis'.

226248. 'Packham's Late'.

**226249 to 226257. ARACHIS HYPOGAEA L. Fabaceae **Peanut.****

From the Union of South Africa. Seeds presented by the Potchefstroom Landboukollege, Potchefstroom, Transvaal. Received June 7, 1955.

226249. 'Alpha'. 226254. 51G. 64A.

226250. 'Lusoka D'. 226255. 51G. 73A.

226251. 'Masambika'. 226256. 52G. 30A.

226252. 43G. 90A. 226257. 52G. 130B.

226253. 51G. 37A.

**226258 to 226263. ZEA MAYS L. Poaceae. **Corn.****

From Bolivia. Seeds presented by William M. Martin, Grand Island, New York. Received June 8, 1955.

From the Lake Titicaca region.

226258. Yellow Kernels. 226261. Red and white kernels.

226259. White kernels. 226262. Dark red kernels.

226260. Blue and white kernels. 226263. Small yellow kernels.

**226264 to 226295.**

From Kenya. Seeds collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 8, 1955.

From the Kitale Station, Nairobi, unless otherwise noted. Collected April 29, 1955.

226264. *ALYSICARPUS GLUMACEUS* DC. Fabaceae.

Col. No. 324. K. 51219.

226265. *CLITORIA TERNATEA* L. Fabaceae. **Asian pigeonwings.**

Col. No. 339. K. 54162.

226266. *CROTALARIA RECTA* A. Rich. Fabaceae.

Col. No. 323. K. 52242.

226267 and 226268. *DESMODIUM UNGINATUM* (Jacq.) DC. Fabaceae. **Tickclover.**

## 226264 to 226295—Continued

## 226267 to 226268—Continued

226267. Col. No. 304. K. 53388. Originally from Hawaii but does well in Kenya.
226268. Col. No. 334. K. 53384. Plant recovers rapidly [from] mowing; stools vigorously; used for hay.
226269. *DOLICCOS BIFLORUS* L. Fabaceae. Twinflower dolichos.  
Col. No. 309. K. 5049. Makes dense mat of fine stems.
226270. *ELEUSINE INDICA* (L.) Gaertn. Poaceae. Goosegrass.  
Col. No. 118. Near Salisbury, Southern Rhodesia.
226271. *INDIGOFERA ARRECTA* Hochst. Fabaceae. Indigo.  
Col. No. 312. K. 5053.
226272. *INDIGOFERA SUBULATA* Vahl Indigo.  
Col. No. 305. K. 53231.
- 226273 and 226274. *LOTONONIS BAINESII* Baker Fabaceae.
226273. Col. No. 308. K. 52331. Originally from Transvaal, South Africa. Makes good growth.
226274. Col. No. 327. K. 52269.
226275. *LOTUS MEARNsii* Britton Fabaceae. Trefoil.  
Col. No. 326. K. 52188.
226276. *LOTUS TIGRENSIS* Baker Trefoil.  
Col. No. 322. K. 50111.
226277. *LUPINUS PRINCEI* Harms Fabaceae. Lupine.  
Col. No. 7. K. 53490.
226278. *MELILOTUS SULCATA* Desf. Fabaceae. Sweetclover.  
Col. No. 328. K. 531006.
226279. *TEPHROSIA HOLSTII* Taub. Fabaceae.  
Col. No. 300. K. 5353.
226280. *TEPHROSIA SUBTRIFLORA* Hochst. Fabaceae.  
Col. No. 338. K. 52329.
226281. *TERAMNUS* sp. Fabaceae.  
Col. No. 306. K. 5155.
226282. *TERAMNUS* sp.  
Col. No. 335. K. 51265.
226283. *TETRAGONIA ARBUSCULA* Fenzl Aizoaceae.  
Col. No. 93. Originally from the Department of Agriculture, Pretoria.
226284. *TRIFOLIUM ALEXANDRINUM* L. Fabaceae. Berseem clover.  
Col. No. 307. K. 52177.
- 226285 and 226286. *TRIFOLIUM RUPPELLIANUM* Fresen. Clover.  
226285. Col. No. 310. K. 5488.  
226286. Col. No. 333. K. 50110.
226287. *TRIFOLIUM SEMIPILOSUM* Fresen. Clover.  
Col. No. 311. K. 5154.
226288. *TRIFOLIUM STEUDNERI* Schweinf. Clover.  
Col. No. 331.

**226264 to 226295—Continued**

- 226289.** *TRIFOLIUM TEMBENSE* Fresen. **Clover.**  
Col. No. 303. K. 53966. 'Humbwa'.
- 226290.** *TRIFOLIUM USAMBARENSE* Taub. **Clover.**  
Col. No. 319. K. 53814.
- 226291.** *VIGNA GRACILIS* Hook. f. *Fabaceae.* **Cowpea.**  
Col. No. 336. K. 51121.
- 226292.** *VIGNA HETEROPHYLLA* A. Rich. **Cowpea.**  
Col. No. 320. K. 531026.
- 226293.** *VIGNA MEMBRANACEA* A. Rich. **Cowpea.**  
Col. No. 321. K. 51352.
- 226294.** *VIGNA OBLONGIFOLIA* A. Rich. **Cowpea.**  
Col. No. 317. K. 53507.
- 226295.** *VIGNA SCHIMPERI* Baker **Cowpea.**  
Col. No. 315. K. 5215.

**226296 to 226299.**

From Japan. Plants collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 8, 1955.

- 226296.** *ROSA* sp. *Rosaceae.*  
Col. No. 55. Watanabe Paeonia Garden, Utsunomiya. June 2, 1955. A dwarf species with white flowers; collected in the wild on Yaku-shima Island.
- 226297.** *SASA* sp. *Poaceae.*  
Col. No. 56. Watanabe Paeonia Garden, Utsunomiya. June 2, 1955. Low dense form, in mountain meadows on the island of Yaku-shima.
- 226298.** *SERISSA FOETIDA* (L. f.) Lam. *Rubiaceae.*  
Col. No. 54. 'Kocho-ki'. Higure Nursery, Angyo, June 1, 1955. A double-flowered variety.
- 226299.** *ZOYSIA* sp. *Poaceae.*  
Col. No. 59. 'Birodo-sihiba'. Kosho-En, Utsunomiya. June 3, 1955. Leaves finer than those of *Z. tenuifolia*.

**226300 and 226301** *SOLANUM TUBEROSUM* L. *Solanaceae.* **Potato.**

From Tasmania. Tubers presented by the Department of Agriculture, Tewkesbury. Received June 8, 1955.

- 226300.** Midseason strain.
- 226301.** Late strain.

**226302 and 226303.** *SESAMUM INDICUM* L. *Pedaliaceae.* **Sesame.**

From Venezuela. Seeds presented by the Departamento Fiftotecnica, Maracay. June 8, 1955.

- 226302.** 'Inamar'.
- 226303.** 'Morada'.

**226304 to 226308.** *ORYZA SATIVA* L. *Poaceae.* **Rice.**

From Egypt. Seeds presented by the Ministry of Agriculture, Botanical and Plant Breeding Section, Orman. Received June 8, 1955.

- 226304.** 'Agami Montakhab 1.      **226307.** 'Sab Ini'.
- 226305.** 'Giza 14'.      **226308.** 'Yabani Montakhab 7'.
- 226306.** 'Giza 23'.

**226309 and 226310. DAUCUS CAROTA L. Apiaceae. Carrot.**

From Mexico. Seed presented by the Rockefeller Foundation, Mexico City. Received June 9, 1955.

226309. 'Primary 61 Chapingo'.

226310. 'Primary 62 Chapingo'.

**226311. Gossypium (hybrid.) Malvaceae. Cotton.**

From Great Britain. Seed presented by the Empire Cotton Growing Corp., London, England. Received June 10, 1955.

'Egyptian Short Branch'.

**226312 to 226441 ORYZA SATIVA L. Poaceae. Rice.**

From Mexico. Seed presented by the Campo Agrícola Experimental "La Victoria", Zacatepec, Morelos. Received June 10, 1955.

226312.	7-8-1.	226344.	CI-186-3-3.
226313.	17-9-4.	226345.	CI-186-3-4.
226314.	27-11-3.	226346.	CI-186-3-5.
226315.	30-16.	226347.	CI-271-2-1.
226316.	32-19-5.	226348.	CI-271-2-2.
226317.	CI-5-5-1.	226349.	CI-271-2-3.
226318.	CI-5-5-2.	226350.	CI-271-2-4.
226319.	CI-5-5-3.	226351.	CI-271-2-5.
226320.	CI-5-5-4.	226352.	CI-466-3-1.
226321.	CI-5-5-5.	226353.	CI-466-3-2.
226322.	CI-6-1-11.	226354.	CI-466-3-3.
226323.	CI-6-1-2.	226355.	CI-466-3-4.
226324.	CI-6-1-3.	226356.	CI-466-3-5.
226325.	CI-6-1-4.	226357.	CI-484-3-1.
226326.	CI-6-1-5.	226358.	CI-484-3-2.
226327.	CI-6-5-1.	226359.	CI-484-3-3.
226328.	CI-6-5-2.	226360.	CI-484-3-4.
226329.	CI-6-5-3.	226361.	CI-484-3-5.
226330.	CI-6-5-4.	226362.	CI-507-1-1.
226331.	CI-6-5-5.	226363.	CI-507-1-2.
226332.	CI-13-2-1.	226364.	CI-507-1-3.
226333.	CI-13-2-2.	226365.	CI-507-1-4.
226334.	CI-13-2-3.	226366.	CI-507-1-5.
226335.	CI-13-2-4.	226367.	CI-621-3-1.
226336.	CI-13-2-5.	226368.	CI-621-3-2.
226337.	CI-101-2-1.	226369.	CI-621-3-3.
226338.	CI-101-2-2.	226370.	CI-621-3-4.
226339.	CI-101-2-3.	226371.	CI-621-3-5.
226340.	CI-101-2-4.	226372.	CI-638-5-1.
226341.	CI-101-2-5.	226373.	CI-638-5-2.
226342.	CI-186-3-1.	226374.	CI-638-5-3.
226343.	CI-186-3-2.	226375.	CI-638-5-4.



**226312 to 226441—Continued**

226376.	CI-638-5-5.	226409.	C2-42-4-3.
226377.	CI-701-1-1.	226410.	C2-42-4-4.
226378.	CI-701-1-2.	226411.	C2-42-4-5.
226379.	CI-701-1-3.	226412.	C2-56-1-1.
226380.	CI-701-1-4.	226413.	C2-56-1-2.
226381.	CI-701-1-5.	226414.	C2-56-1-3.
226382.	CI-701-2-1.	226415.	C2-56-1-4.
226383.	CI-701-2-2.	226416.	C2-56-1-5.
226384.	CI-701-2-3.	226417.	C6-56-2-1.
226385.	CI-701-2-4.	226418.	C6-56-2-2.
226386.	CI-701-2-5.	226419.	C6-56-2-3.
226387.	CI-701-4-1.	226420.	C6-56-2-4.
226388.	CI-701-4-2.	226421.	C6-56-2-5.
226389.	CI-701-4-3.	226422.	C6-116-5-1.
226390.	CI-701-4-4.	226423.	C6-116-5-2.
226391.	CI-701-4-5.	226424.	C6-116-5-3.
226392.	C2-42-1-1.	226425.	C6-116-5-4.
226393.	C2-42-1-2.	226426.	C6-116-5-5.
226394.	C2-42-1-3.	226427.	C6-146-4-1.
226395.	C2-42-1-4.	226428.	C6-146-4-2.
226396.	C2-42-1-5.	226429.	C6-146-4-3.
226397.	C2-42-2-1.	226430.	C6-146-4-4.
226398.	C2-42-2-2.	226431.	C6-146-4-5.
226399.	C2-42-2-3.	226432.	C6-221-4-1.
226400.	C2-42-2-4.	226433.	C6-221-4-2.
226401.	C2-42-2-5.	226434.	C6-221-4-3.
226402.	C2-42-3-1.	226435.	C6-221-4-4.
226403.	C2-42-3-2.	226436.	C6-221-4-5.
226404.	C2-42-3-3.	226437.	C6-226-1-1.
226405.	C2-42-3-4.	226438.	C6-226-1-2.
226406.	C2-42-3-5.	226439.	C6-226-1-3.
226407.	C2-42-4-1.	226440.	C6-226-1-4.
226408.	C2-42-4-2.	226441.	C6-226-1-5.

**226442. ORMOSIA sp. Fabaceae.**

From Panama. Seeds presented by Ciro de la Victoria, Panama. Received June 13, 1955.

**226443 to 226445.**

From Israel. Seeds presented by the United States Operations Mission to Israel, Tel Aviv. Received June 13, 1955.

226443 and 226444 CUCUMIS MELO L. Cucurbitaceae.

**Muskmelon.**

226443. 'Ananas-Yokneam'.

226444. 'Tal-Hagilboa'.

**226443 to 226445—Continued**

- 226445.** *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. **Watermelon.**  
'Malali Improved'.

**226446 to 226490.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 14, 1955.

Collected April and May, 1955.

- 226446 to 226448.** *ALLIUM CEPA* L. Liliaceae. **Onion.**

**226446.** Col. No. 14727. 'Piaz'. Market, Kazerun. Elevation 3,000 feet.

**226447.** Col. No. 14752. 'Piaz Sadi'. Market, Shiraz. Elevation 5,200 feet.

**226448.** Col. No. 14791. 'Piaz'. Market, Kerman. Elevation 5,800 feet.

- 226449.** *ANETHUM GRAVEOLENS* L. Apiaceae. **Dill.**

Col. No. 14777. 'Shiby'. Market, Kerman. Elevation 5,800 feet.

- 226450.** *ARISTIDA CILIATA* Desf. Poaceae. **Three-awn.**

Col. No. 14602. Twenty-five miles northeast of Ahwaz.

- 226451.** *ASTRAGALUS* sp. Fabaceae.

Col. No. 14818. Twelve miles southeast of Sirjan, along road to Bandar-Abbas. Elevation 5,800 feet. Annual, low-spreading, unarmed on ungrazed area.

- 226452.** *BRACHYPODIUM* sp. Poaceae.

Col. No. 14613. Fifteen miles south of Shushtar. Elevation 800 feet. Annual, slender, colonial.

- 226453.** *BROMUS DANTHONIAE* Trin. Poaceae. **Brome.**

Col. No. 14609. Abe-e Gonji, halfway between Ahwaz and Shushtar. Slender, annual.

- 226454.** *BROMUS RACEMOSUS* L. **Bald brome.**

Col. No. 14585. Irrigated field near Ahwaz. Spreading annual; eaten by cattle.

- 226455.** *BROMUS MADRITENSIS* L. **Spanish brome.**

Col. No. 14610. Abe-e Gonji, halfway between Ahwaz and Shushtar. Scattered annual.

- 226456.** *BROMUS SCOPARIUS* L. **Broom brome.**

Col. No. 14651. Thirty miles north of Andimenshk along road to Khorramabad. Elevation 1,700 feet. Annual slender, mostly single-stemmed.

- 226457.** *BROMUS DANTHONIAE* Trin. **Brome.**

Col. No. 14667. Thirty miles north of Andimenshk along road to Khorramabad. Elevation 1,700 feet. Annual with purplish margined spikes.

- 226458.** *BROMUS* sp.

Col. No. 14830. Sixty-two miles south of Sirjan along road to Bandar-Abbas. Elevation 5,300 feet. Annual.

- 226459 and 226460.** *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. **Watermelon.**

**226459.** Col. No. 14754. 'Hendavanch Sharifabad'. Market, Shiraz. Elevation 5,200 feet.

**226460.** Col. No. 14779. Market, Kerman. Elevation 5,800 feet.

- 226461 and 226462.** *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**

**226461.** Col. No. 14707. Market, Kazerun. Elevation 3,000 feet.

**226462.** Col. No. 14755. 'Dastamboo'. Shiraz market. Elevation 5,200 feet.

**226446 to 226490—Continued**

- 226463.** CUCURBITA PEPO L. Cucurbitaceae. **Pumpkin.**  
Col. No. 14780. Market, Kerman. Elevation 5,800 feet.
- 226464.** DAUCUS CAROTA L. Apiaceae. **Carrot.**  
Col. No. 14770. Market, Shiraz. Elevation 5,200 feet.
- 226465 and 226466.** HELIANTHUS ANNUUS L. Asteraceae. **Common sunflower.**  
**226465.** Col. No. 14719. Market, Kazerun. Elevation 3,000 feet.  
**226466.** Col. No. 14758. Market, Shiraz. Elevation 5,200 feet.
- 226467.** HORDEUM VULGARE L. Poaceae. **Barley.**  
Col. No. 14797. 'Joh'. Market, Kerman.
- 226468.** LACTUCA SATIVA L. Cichoriaceae. **Lettuce.**  
Col. No. 14799. 'Kauh'. Market, Kerman. Elevation 5,800 feet.
- 226469.** MEDICAGO POLYMORPHA var. VULGARIS (Benth.) Shinnars  
**California burclover.**  
Col. No. 14594. Irrigated fields near Ahwaz. Spreading annual.
- 226470 and 226471.** MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**  
**226470.** Col. No. 14806. Bam. Elevation 3,600 feet.  
**226471.** Col. No. 14843. Bam. Local strain; excellent quality.
- 226472.** MELILOTUS INDICA (L.) All. Fabaceae. **Annual yellow sweetclover.**  
Col. No. 14808. Eight miles northwest of Bam. Elevation 4,000 feet.
- 226473.** ONOBRYCHIS sp. Fabaceae.  
Col. No. 14829. Seventy-one miles south of Sirjan along road to Bandar-Abbas.
- 226474.** PAPAVER SOMNIFERUM L. Papaveraceae. **Opium poppy.**  
Col. No. 14776. Market, Kerman. Elevation 5,800 feet. Widely cultivated locally for opium.
- 226475 and 226478.** PHASEOLUS VULGARIS L. Fabaceae. **Common bean.**  
**226475.** Col. No. 14773. 'Lubia'. Market, Shiraz. Elevation 5,200 feet.  
**226476.** Col. No. 14785. Market, Kerman. Elevation 5,800 feet. Grown at higher altitude on nearby mountain.  
**226477.** Col. No. 14787. Market, Kerman. Elevation 5,800 feet. Originally from Esfahan.  
**226478.** Col. No. 14788. Market, Kerman. Elevation 5,800 feet. Originally from Esfahan.
- 226479 and 226480.** PRUNUS DOMESTICA L. Amygdalaceae. **Common plum.**  
**226479.** Col. No. 14576. Market, Ahwaz.  
**226480.** Col. No. 14577. Market, Ahwaz.
- 226481.** PRUNUS sp.  
Col. No. 14675. Twenty-five miles south of Shiraz along road to Firuzabad. Elevation 5,000 feet. Small plumlike fruits.
- 226482.** RAPHANUS SATIVUS L. Brassicaceae. **Radish.**  
Col. No. 14716. Market, Kazerun. Elevation 3,000 feet. White, round type.
- 226483.** RUMEX sp. Polygonaceae.  
Col. No. 14625. Eighteen miles south of Shushtar. Elevation 800 feet. Large-leaved, tender herb; eaten by cattle.
- 226484.** SCORPIURUS SULCATA L. Fabaceae.  
Col. No. 14595. Irrigated fields near Ahwaz. Spreading, annual herb; flowers yellow.

**226446 to 226490—Continued****226485.** *STIPA* sp. Poaceae.

Col. No. 14819. Fifty miles south of Sirjan along road to Bandar-Abbas. Elevation 600 feet. Slender xerophytic perennial; browsed by wild animals.

**226486.** *TRIFOLIUM RESUPINATUM* L. Fabaceae. **Persian clover.**

Col. No. 14746. 'Shabdar'. Market, Shiraz. Elevation 5,200 feet.

**226487 and 226488.** *VICIA SATIVA* L. Fabaceae. **Common vetch.****226487.** Col. No. 14730. Two miles east of Kazerun. Elevation 3,000 feet.**226488.** Col. No. 14807. Three miles northwest of Bam. Elevation 4,000 feet.**226489 and 226490.** *VIGNA SINENSIS* (Torner) Savi **Common cowpea.****226489.** Col. No. 14772. 'Lubia cheshm'. 'Bolbsly'. Market, Shiraz. Elevation 5,200 feet. Local white variety.**226490.** Col. No. 14790. Market, Kerman. White variety.**226491 and 226492.**

From India. Seeds presented by the Sealtak Forest Office, Assam. Received June 15, 1955.

**226491.** *DENDROCALAMUS HAMILTONII* Ness & Arn. Poaceae. **Bamboo.****226492.** *PSEUDOSTACHYUM POLYMORPHUM* Munro Poaceae. **Bamboo.****226493 to 226498.**

From Australia. Seeds presented by Ed. Pollock, Molong Road, Parkes, New South Wales. Received June 15, 1955.

**226493.** *ACACIA RICEANA* Henslow Mimosaceae. **Rice acacia.**

Leaves short, dark green, spikelike; flowers in drooping cluster.

**226494.** *CYATHODES GLACUA* Labill. Epacridaceae.

'Peach berry'. A shrub to 20 feet high; leaves short, stiff; flowers in small clusters with a strong honeylike odor; berries pink to purple.

**226495.** *HELICHRYSUM ANTENNARIUM* F. Muell. Asteraceae.

Shrub to 12 feet high; flowers numerous, whitish to cream.

**226496.** *NOTHOFAGUS CUNNINGHAMII* Oerst. Fagaceae. **Tasmanian falsebeech.**

'Tasmanian beech'. Tree lofty; foliage beautiful

**226497.** *OLEARIA RAMULOSA* Benth. Asteraceae. **Twiggy daisybush.**

An attractive shrub to 3 feet high; flowers mauve and white.

**226498.** *TELOPEA SPECIOSISSIMA* (J. E. Sm.) R. Br. Proteaceae. **Crimson waratah.**

Shrub to 10 feet high; flowers beautiful, large, scarlet, odorless.

**226499 to 226537.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 16, 1955.

Collected April and May, 1955.

**226499.** *AEGILOPS TRIUNCIALIS* L. Poaceae. **Barb goatgrass.**

Col. No. 14605. Abe-e Gonji, halfway between Ahwaz and Shustar. Annual; about 15 inches high.

**226500.** *AEGILOPS OVATA* L. **Goatgrass.**

Col. No. 14635. Twenty miles north of Dexful along road to Khorramabad. Elevation 1,200 feet. Stooling, shortheaded annual.



## 226499 to 226537—Continued

- 226501.** *AEGILOPS TRIUNCIALIS* L. Barb goatgrass.  
Col. No. 14681. Near Kazerun. Elevation 3,000 feet. Field annual.
- 226502.** *ANETHUM GRAVEOLENS* L. Apiaceae. Dill.  
Col. No. 14764. 'Shebet'. Market, Shiraz. Elevation 5,200 feet.
- 226503.** *ASTRAGALUS* sp. Fabaceae.  
Col. No. 14626. Fifty miles north of Ahwaz. Low perennial bush.
- 226504.** *BRASSICA OLERACEA* var. *BOTRYTIS* L. Brassicaceae. Cauliflower.  
Col. No. 14762. 'Kalam Goll'. Market, Shiraz. Elevation 5,200 feet.
- 226505.** *BRASSICA CAMPESTRIS* L. Bird rape.  
Col. No. 14725. Market, Kazerun. Elevation 3,000 feet. Locally cultivated vegetable.
- 226506.** *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. Watermelon.  
Col. No. 14562. 'Hindavana'. Market, Ahwaz.
- 226507 and 226508.** *CUCUMIS MELO* L. Cucurbitaceae. Muskmelon.  
226507. Col. No. 14559. Market, Ahwaz. Fruit oblong. Seeds said to be from mountains near Korramabad.
- 226508.** Col. No. 14782. 'Kharbusa'. Market, Kerman. Elevation 5,800 feet. Fruit large, elongated.
- 226509 and 226510.** *CUCUMIS SATIVUS* L. Cucurbitaceae. Cucumber.  
226509. Col. No. 14756. 'Kheeyar Dulab'. Market, Shiraz. Elevation 5,200 feet.
- 226510.** Col. No. 14783. 'Khiarcumber'. Market, Kerman. Elevation 5,800 feet. Local variety. Fruit to 8 inches long.
- 226511.** *CUCURBITA PEPO* L. Cucurbitaceae. Pumpkin.  
Col. No. 14563. 'Keds'. Market, Ahwaz.
- 226512.** *HORDEUM* sp. Poaceae.  
Col. No. 14608. Abe-e Gonji, halfway between Ahwaz and Shustar. Annual, about 1 foot high; little forage value.
- 226513 and 226514.** *LACTUCA SATIVA* L. Cichoriaceae. Lettuce.  
226513. Col. No. 14726. 'Kahon'. Market, Kazerun. Elevation 3,000 feet.
- 226514.** Col. No. 14765. Market, Shiraz. Elevation 5,200 feet.
- 226515.** *LINUM USITATISSIMUM* L. Linaceae. Flax.  
Col. No. 14800. 'Barz'. Market, Kerman. Elevation 5,800 feet.
- 226516.** *LYCOPERSICON ESCULENTUS* Mill. Solanaceae. Tomato.  
Col. No. 14560. Market, Ahwaz. Thinskinmed, malformed type; cultivated locally.
- 226517.** *MEDICAGO POLYMORPHA* var. *VULGARIS* (Benth.) Shinnars Fabaceae. California burclover.  
Col. No. 14587. Near Ahwaz. Low spreading annual, occurring as a weed.
- 226518.** *MEDICAGO SATIVA* L. Alfalfa.  
Col. No. 14745. 'Yanjeh Hamedan'. Market, Shiraz. Elevation 5,200 feet. Seeds originally from Hamedan.
- 226519.** *PHALARIS MINOR* Retz. Poaceae. Littleseed canarygrass.  
Col. No. 14586. Ahwaz. Weedy grass.

**226499 to 226537—Continued**

**226520.** *PHASEOLUS AUREUS* Roxb. Fabaceae. **Mung bean.**

Col. No. 14789. 'Mash'. Market, Kerman. Elevation 5,800 feet. Said to come from Jiraf.

**226521 to 226525.** *PHASEOLUS VULGARIS* L. Fabaceae. **Common bean.**

**226521.** Col. No. 14554. 'Quzvin Lubia'. Market, Ahwaz. Large, red-marked bean, grown locally.

**226522.** Col. No. 14556. 'Lubia Safid'. Market, Ahwaz. **White bean.**

**226523.** Col. No. 14557. 'Lubia Rasht'. Market, Ahwaz.

**226524.** Col. No. 14715. 'Lubia'. Market, Kazerun. Elevation 3,000 feet. Irrigated, grown locally.

**226525.** Col. No. 14555. 'Red Lubia'. Market, Ahwaz. Seeds pink.

**226526.** *POA BULBOSA* L. Poaceae. **Bulbous bluegrass.**

Col. No. 14618. Eighteen miles south of Shustar. Elevation 800 feet. Fine-leaved perennial among rocks.

**226527.** *RHEUM RHAPONTICUM* L. Polygonaceae. **Common rhubarb.**

Col. No. 14840. Hills between Bardesir and Kerman. Elevation 7,000 feet.

**226528.** *SALVIA* sp. Menthaceae.

Col. No. 14722. 'Marveresht'. Market, Kazerun. Elevation 3,000 feet.

**226529.** *SOLANUM MELONGENA* L. Solanaceae. **Eggplant.**

Col. No. 14698. Market, Kazerun. Elevation 3,000 feet.

**226530.** *TRIFOLIUM RESUPINATUM* L. Fabaceae. **Persian clover.**

Col. No. 14653. Thirty miles north of Andimenshk along road to Korramabad. Elevation 1,700 feet.

**226531.** *TRIFOLIUM LAPPACEUM* L. **Lappa clover.**

Col. No. 14665. Thirty miles north of Andimenshk along road to Khorramabad. Elevation 1,700 feet. Low herb.

**226532.** *TRIFOLIUM TOMENTOSUM* L. **Woolly clover.**

Col. No. 14686. Nine miles northwest of Kazerun. Elevation 3,000 feet. Common spring annual.

**226533.** *TRIGONELLA UNCATA* Boiss. & Noe Fabaceae.

Col. No. 14590. Irrigated fields near Ahwaz. Low decumbent annual.

**226534.** *TRIGONELLA ANGUINA* Delile

Col. No. 14591. Irrigated fields near Ahwaz. Decumbent annual.

**226535.** *VICIA ANGUSTIFOLIA* var. *SEGETALIS* (Thuill.) Koch Fabaceae. **Vetch.**

Col. No. 14583. Irrigated fields near Ahwaz. Short-climbing annual.

**226536 and 226537.** *VIGNA SINENSIS* (Torner) Savi Fabaceae. **Common cowpea.**

**226536.** Col. No. 14553. 'Lubia'. Market, Ahwaz.

**226537.** Col. No. 14690. Market, Kazerun. Elevation 3,000 feet.

**226538 and 226539.**

From Morocco. Seeds presented by the Centre de la Recherche Agronomique, Rabat. Received June 16, 1955.

**226538.** *MELILOTUS ITALICA* (L.) Lam. Fabaceae. **Sweetclover.**

**226539.** *MELILOTUS SULCATA* Desf. **Sweetclover.**

**226540.** *INDIGOFEA* sp. Fabaceae.

From the Belgian Congo. Seeds presented by the Institut National pour l'Etude Agronomique du Congo Belge, Yangambi. Received June 16, 1955.

**226541 and 226542.**

From Japan. Seeds collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 17, 1955.

**226541.** *POLYGONUM REYNOUTRIA* Makino Polygonaceae. **Knotweed.**

Col. No. 3. Mount Sakurajima. May 20, 1955. Growing as a subshrub among pine and bamboo.

**226542.** *RHODODENDRON OBTUSUM* var. *JAPONICUM* Wils. Ericaceae. **Kurume azalea.**

Col. No. 15. Mount Karabuni. May 21, 1955. Elevation 5,100 feet.

**226543.** *SYMPHYTUM OFFICINALE* L. Boraginaceae. **Comfrey.**

From Canada. Roots presented by Bodie Seeds, Limited, Winnipeg. Received June 17, 1955.

**226544 to 226583.**

From Ethiopia. Seeds collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 20, 1955.

Collected May, 1955, in market in Addis Ababa unless otherwise noted.

**226544.** *BRASSICA NIGRA* (L.) Koch Brassicaceae.

Col. No. 380.

**226545.** *BRASSICA CARINATA* A. Br.

Col. No. 381.

**226546.** *CARTHAMUS TINCTORIUS* L. Asteraceae. **Safflower.**

Col. No. 375. 'Morg'.

**226547.** *CASSIA* sp. Caesalpiniaceae.

Col. No. 372. Jimma. Ornamental shrub, to 8 feet high; flowers yellow.

**226548.** *CROTALARIA SPINOSA* Hochst. Fabaceae.

Col. No. 371. Jimma. Small spiny plants to 18 inches high.

**226549.** *CROTALARIA* sp.

Col. No. 358. One hundred and sixty miles south of Addis Ababa. Plant about 4 feet high.

**226550.** *CROTALARIA* sp.

Col. No. 368. Jimma. Plants to 4 feet high.

**226551.** *DESMODIUM* sp. Fabaceae.

Col. No. 373. Roadside 16 miles north of Jimma. Shrub, to 3 feet high.

**226552.** *ERAGROSTIS TEF* (Zuccagni) Trotter Poaceae. **Teff.**

Col. No. 385.

**226553 and 226554.** *HORDEUM VULGARE* L. Poaceae. **Barley.**

**226553.** Col. No. 388.

**226554.** Col. No. 389.

**226555.** *LENS CULINARIS* Medic. Fabaceae. **Lentil.**

Col. No. 390.

**226556 and 226557.** *LINUM USITATISSIMUM* L. Linaceae. **Flax.**

**226556.** Col. No. 397.

**226557.** Col. No. 412.

**226544 to 226583—Continued**

- 226558.** *LUPINUS ALBUS* L. Fabaceae. **White lupine.**  
Col. No. 366. Plants to 7 feet high; flowers purple.
- 226559 and 226560.** *PHASEOLUS VULGARIS* L. Fabaceae. **Common bean.**  
**226559.** Col. No. 360. One hundred and sixty miles south of Addis Ababa. Mar. 13, 1955.  
**226560.** Col. No. 395.
- 226561 to 226564.** *PISUM SATIVUM* L. Fabaceae. **Garden pea.**  
**226561.** Col. No. 359. One hundred and sixty miles south of Addis Ababa.  
**226562.** Col. No. 401.  
**226563.** Col. No. 402.  
**226564.** Col. No. 403.
- 226565.** *RUMEX* sp. Polygonaceae.  
Col. No. 348. Plants about 3 feet high.
- 226566.** *RUMEX* sp.  
Col. No. 357. Near Dodolo in Mendebo Mountains. Plants to 7 feet high.
- 226567 and 226568.** *SESAMUM INDICUM* L. Pedaliaceae. **Sesame.**  
**226567.** Col. No. 382.  
**226568.** Col. No. 383.
- 226569 and 226570.** *SORGHUM VULGARE* Pers. Poaceae.  
**226569.** Col. No. 391.  
**226570.** Col. No. 392.
- 226571.** *SORGHUM* sp.  
Col. No. 374. Road to Jimma near Omo River. Dense bunchgrass; leaves broad.
- 226572.** *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae. **Fenugreek.**  
Col. No. 384.
- 226573 to 226578.** *TRITICUM AESTIVUM* L. Poaceae. **Common wheat.**  
**226573.** Col. No. 405. Hard type.  
**226574.** Col. No. 406. Soft type.  
**226575.** Col. No. 407. Beardless.  
**226576.** Col. No. 409. Mixture.  
**226577.** Col. No. 410.  
**226578.** Col. No. 411. Purple, hard type.
- 226579 and 226580.** *VICIA FABA* L. Fabaceae. **Broadbean.**  
**226579.** Col. No. 396.  
**226580.** Col. No. 410-A.
- 226581 and 226582.** *ZEA MAYS* L. Poaceae. **Corn.**  
**226581.** Col. No. 393.  
**226582.** Col. No. 394.
- 226583.** *ZORNIA DIPHYLLA* (L.) Pers. Fabaceae.  
Col. No. 365. About 27 miles south of Sciasciamanna. March, 1955. Plant with four round leaflets.
- 226584.** *COFFEA* (hybrid). Rubiaceae. **Coffee.**  
From El Salvador. Seed presented by the Foreign Operations Administration, San Salvador. Received June 21, 1955.  
'San Ramon' × 'Bourbon'.



**226585 to 226591. GLYCINE MAX (L.) Merr. Fabaceae. Soybean.**

From Japan. Seeds collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md.

Received June 21, 1955.

All seeds collected at Tochigi Experiment Station, Utsunomiya. June 3, 1955.

226585. Col. No. 58. 'Norin No. 1'.

226586. Col. No. 59. 'Norin No. 2'.

226587. Col. No. 60. 'Norin No. 3'.

226588. Col. No. 61. 'Tochigi No. 2'.

226589. Col. No. 62. 'Tochigi No. 3'.

226590. Col. No. 63. 'Tochigi-Kimusume No. 1'.

226591. Col. No. 64. 'Shin-Mejiro'.

**226592 to 226596.**

From Costa Rica. Seeds presented by the Ministerio de Agricultura e Industrias, San Jose. Received June 21, 1955.

226592. DESMODIUM BARBATUM (L.) Benth. Fabaceae. Tickclover.

226593. DESMODIUM INTORTUM (Mill.) Urb. Tickclover.

226594. PHASEOLUS COCCINEUS L. Fabaceae. Scarlet runner bean.

226595. STIZOLOBIUM sp. Fabaceae.

226596. TRIFOLIUM REPENS L. Fabaceae. Whiteclover.

**226597 and 226598.**

From Iran. Bulbs and cuttings collected by H. S. Gentry, Agricultural Explorer Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 21, 1955.

226597. ARRHENATHERUM ELATIUS var. BULBOSUM (Willd.) Spenner Poaceae. Tuber oatgrass.

Col. No. 14996. Twenty miles northwest of Abadeh, Fars. June 9, 1955. Elevation 8,500 feet. Slender perennial; eaten by sheep.

226598. PRUNUS AMYGDALUS Batsch Amygdalaceae. Almond.

Col. No. 14971. Bavanat Valley, Fars.

**226599. RUBUS NIVEUS Thunb. Rosaceae. Snowpeaks raspberry.**

From India. Seeds presented by the Forest Research Institute, New Forest (Dehra Dun). Received June 23, 1955.

**226600 to 226602.**

From Japan. Collected by J. L. Creech, Agricultural Explorer, Horticultural Crops Research Branch, Plant Introduction Section, Beltsville, Md. Received June 23, 1955.

226600. CAMELLIA JAPONICA L. Theaceae. Common camellia.

Col. No. 137. Mount Bokko San, near Kobe, growing along road. June 16, 1955. (Cuttings).

226601. CITRUS NIPPOKOREANA Tanaka Rutaceae.

Col. No. 141. Summer Orange Experiment Station, Hagi City, Yamaguchi Prefecture. June 16, 1955.

226602. LILIUM JAPONICUM Thunb. Liliaceae. Lily.

Col. No. 139. In bamboo forest about 13 miles south of Hagi City. Elevation 2,100 feet. June 16, 1955. Flowers pale pink, typical form. (Bulbs).

**226603 to 226609. SOLANUM TUBEROSUM L. Solanaceae. Potato.**

From Mexico. Tubers presented by the Rockefeller Foundation, Mexico City.  
Received June 23, 1955.

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|----------------------|---------------------|
| 226603. U. S. 32-4.  | 226607. U. S. 78-3. |
| 226604. U. S. 32-9.  | 226608. U. S. 78-8. |
| 226605. U. S. 42-23. | 226609. U. S. 78-9. |
| 226606. U. S. 42-26. |                     |

**226610 to 226614. HORDEUM VULGARE L. Poaceae. Barley.**

From Cyprus. Seeds presented by the Director of Agriculture, Nicosia. Received  
June 27, 1955.

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|-------------------------|----------------------|
| 226610. 'Athenais'.     | 226613. 'Exadjian'.  |
| 226611. 'B.M.C'.        | 226614. 'Paphitico'. |
| 226612. 'Cyprus Black'. |                      |

**226615 to 226680.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received  
June 27, 1955.

Collected April and May, 1955.

**226615. AEGILOPS TRIARISTATA Willd. Poaceae. Goatgrass.**

Col. No. 14627. Fifty miles north of Ahwaz. Annual, stooling, leafy; 1 foot high.

**226616. AEGILOPS OVATA L. Goatgrass.**

Col. No. 14679. Twelve miles east of Kazerun along road to Shiraz. Elevation 4,000 feet. Grass weedy, shorthheaded.

**226617. AEGILOPS TRIARISTATA Willd. Goatgrass.**

Col. No. 14680. Twelve miles east of Kazerun along road to Shiraz. Annual, stooling, with ascending culms to 10 inches high.

**226618. ALLIUM sp. Liliaceae.**

Col. No. 14720. 'Gandena'. Market, Kazerun. Elevation 3,000 feet.

**226619. ALLIUM sp.**

Col. No. 14769. 'Gandena'. Market, Shiraz. Elevation 5,200 feet. Eaten both raw and cooked.

**226620 to 226622. AMMI COPTICUM L. Apiaceae.**

226620. Col. No. 14695. 'Zenion'. Market, Kazerun. Elevation 3,000 feet.

226621. Col. No. 14710. 'Zenion'. Market, Kazerun. Elevation 3,000 feet. Used for stomach ailments.

226622. Col. No. 14793. Market, Kerman. Elevation 5,800 feet. Local seasoning herb.

**226623. ANETHUM GRAVEOLENS L. Apiaceae. Dill.**

Col. No. 14570. 'Shivat'. Market, Ahwaz. Seasoning herb, grown locally.

**226624. APIUM GRAVEOLENS L. Apiaceae. Celery.**

Col. No. 14757. 'Karafs'. Market, Shiraz. Elevation 5,200 feet. Originally from Tehran.

**226625. PETROSELINUM CRISPUM (Mill.) Nym. Apiaceae. Parsley.**

Col. No. 14574. 'Jafari'. Market, Ahwaz.

**226626. ARISTIDA sp.**

Col. No. 14833. Sixty-three miles south of Sirjan along road to Bandar-Abbas. Elevation 5,100 feet. Xerophytic perennial, in small tufts.

**226615 to 226680—Continued**

**226627.** *ASTRAGALUS* sp. Fabaceae.

Col. No. 14735. Eighteen miles east of Kazerun. Elevation 4,200 feet. Decumbent to prostrate annual reported palatable to livestock.

**226628.** *BETA VULGARIS* L. Chenopodiaceae.

**Beet.**

Col. No. 14724. 'Chogandar'. Market, Kazerun. Elevation 3,000 feet.

**226629.** *BRACHYPODIUM* sp. Poaceae.

Col. No. 14733. Twelve miles east of Kazerun. Elevation 3,800 feet. Winter annual.

**226630.** *BROMUS MADRITENSIS* L. Poaceae.

**Spanish brome.**

Col. No. 14737. Eighteen miles east of Kazerun. Elevation 4,200 feet. Low annual; young leaves eaten by cattle.

**226631.** *CALLIGONUM* sp. Polygonaceae.

Col. No. 14816. Twenty-seven miles southeast of Sirjan along road to Bandar-Abbas. Elevation 5,800 feet. Xerophytic spreading shrub; branches white; fruits showy pink to red.

**226632 and 226633.** *CAPSICUM FRUTESCENS* L. Solanaceae.

**Redpepper.**

**226632.** Col. No. 14714. Market, Kazerun. Elevation 3,000 feet. Local hot variety.

**226633.** Col. No. 14751. 'Felfell'. Market, Shiraz. Elevation 5,200 feet. Local, cultivated chili pepper.

**226634.** *CITRULLUS VULGARIS* Schrad. Cucurbitaceae.

**Watermelon.**

Col. No. 14786. Market, Kerman. Elevation 5,800 feet. Fruits black-seeded; grown by irrigation.

**226635.** *CUCUMIS SATIVUS* L. Cucurbitaceae.

**Cucumber.**

Col. No. 14717. Market, Kazerun. Elevation 3,000 feet. Irrigated; fruits short.

**226636.** *DAUCUS CAROTA* L. Apiaceae.

**Carrot.**

Col. No. 14760. 'Nargesi Shiraz'. Market, Shiraz. Elevation 5,200 feet. Roots yellow, to 2 feet in length.

**226637.** *ANDROPOGON* sp. Poaceae.

Col. No. 14888. Musiabad, fifty miles west of Esfahan.

**226638.** *DOLICHOS LABLAB* L. Fabaceae.

**Hyacinth-bean.**

Col. No. 14771. 'Lubia gol'. Market, Shiraz. Elevation 5,200 feet.

**226639.** *HORDEUM VULGARE* L. Poaceae.

**Barley.**

Col. No. 14728. 'Joh'. Five miles east of Kazerun along road to Shiraz. Elevation 3,000 feet. Two-rowed.

**226640.** *HORDEUM* sp.

Col. No. 14823. Fifty-two miles south of Sirjan along the road to Bandar-Abbas. Elevation 6,400 feet. Xerophytic annual.

**226641.** *LACTUCA SATIVA* L. Cichoriaceae.

**Garden lettuce.**

Col. No. 14571. 'Kahu'. Market, Ahwaz.

**226642.** *LINUM* sp. Linaceae.

Col. No. 14702. 'Angireh'. Market, Kazerun. Wild, prickly herb; seeds used as medicine.

**226615 to 226680—Continued**

**226643.** *ONONIS ADENOTRICHA* Boiss. Fabaceae.

Col. No. 14656. Thirty miles north of Andimenshk along road to Khorramabad. Elevation 1,700 feet. Erect, sticky annual, to 8 inches high.

**226644.** *LYCOPERSICON ESCULENTUM* Mill. Solanaceae.

**Tomato.**

Col. No. 14761. 'Gajeh Farangi'. Market, Shiraz. Elevation 5,200 feet. Fruits small, round.

**226645.** *MEDICAGO CORONATA* (L.) Gaertn. Fabaceae.

**Medic.**

Col. No. 14732. Twelve miles east of Kazerun. Elevation 3,800 feet. Annual, stems fine; pods small.

**226646.** *MEDICAGO TUBERCOLATA* (Retz.) Willd.

**Cogwheel medic.**

Col. No. 14684. Near Kazerun. Elevation 3,000 feet. Small herb.

**226647 and 226648.** *MEDICAGO POLYMORPHA* var. *VULGARIS* (Benth.) Shinnars  
**California burclover.**

**226647.** Col. No. 14685. Cultivated field near Kazerun. Elevation 3,000 feet.

**226648.** Col. No. 14738. Eighteen miles east of Kazerun. Elevation 4,200 feet. Prostrate plant in fallow field.

**226649 and 226650.** *SATUREJA HORTENSIS* L. Menthaceae.

**Summer savory.**

**226649.** Col. No. 14721. 'Shaki'. Market, Kazerun. Elevation 3,000 feet. Leaves eaten raw.

**226650.** Col. No. 14766. 'Marzeh'. Market, Shiraz. Elevation 5,200 feet. Used as seasoning; local variety.

**226651.** *MYRTUS* sp. Myrtaceae.

Col. No. 14803. Market, Kerman. Elevation 5,800 feet. Local variety; ornamental.

**226652.** *ONOBRYCHIS* sp. Fabaceae.

Col. No. 14588. Irrigated fields near Ahwaz. Low herb, forming ground cover.

**226653.** *ONOBRYCHIS* sp.

Col. No. 14645. Twenty miles north of Dezful along road to Khorramabad. Elevation 1,200 feet. Plant erect, diffuse annual, about 3 feet high.

**226654.** *ONOBRYCHIS* sp.

Col. No. 14652. Thirty miles north of Andimenshk along road to Khorramabad. Elevation 1,700 feet. Plant low, diffuse annual.

**226655.** *ONOBRYCHIS* sp.

Col. No. 14682. Cultivated field near Kazerun. Elevation 3,000 feet.

**226656.** *PETROSELINUM CRISPUM* (Mill.) Nym. Apiaceae.

**Parsley.**

Col. No. 14709. 'Nargasi'. Market, Kazerun. Elevation 3,000 feet.

**226657 and 226658.** *PHASEOLUS AUREUS* Roxb. Fabaceae.

**Mung bean.**

**226657.** Col. No. 14711. 'Mash'. Market, Kazerun. Elevation 3,000 feet.

**226658.** Col. No. 14747. 'Mash'. Market, Shiraz. Elevation 5,200 feet.

**226659 to 226662.** *PHASEOLUS VULGARIS* L. Fabaceae.

**Common bean.**

**226659.** Col. No. 11748. 'Lubia Ghermes'. Market, Shiraz. Elevation 5,200 feet. Mixed varieties.

**226660.** Col. No. 11749. 'Lubia Sefid'. Market, Shiraz. Elevation 5,200 feet. Local white type.

**226661.** Col. No. 14688. 'Lubia Ghermes'. Market, Kazerun. Elevation 3,000 feet.

**226662.** Col. No. 14689. 'Lubia'. Kazerun. Local, mixed varieties.



**226615 to 226680—Continued**

- 226663.** *PLANTAGO PSYLLIUM* L. Plantaginaceae. **Flaxseed plantain.**  
Col. No. 14693. 'Esfarzeh'. Market, Kazerun.
- 226664 to 226666.** *POA BULBOSA* L. Poaceae. **Bulbous bluegrass.**  
**226664.** Col. No. 14677. Twenty-seven miles south of Shiraz along road to Firuzabad.  
**226665.** Col. No. 14678. Twenty-seven miles south of Shiraz along road to Firuzabad. Plant tall, caney, to 1.5 feet high.  
**226666.** Col. No. 14822. Forty-three miles south of Sirjan along road to Bandar-Abbas. Elevation 6,000 feet. Perennial; on rocks.
- 226667.** *POA* sp.  
Col. No. 14674. Nineteen miles south of Shiraz along road to Firuzabad. Elevation 5,000 feet.
- 226668.** *PRUNUS* sp. Amygdalaceae.  
Col. No. 14734. 'Argan'. Twelve miles east of Kazerun. Spiny, xerophytic shrub, spreading, to 4 feet high.
- 226669 and 226670.** *RICINUS COMMUNIS* L. Euphorbiaceae. **Castorbean.**  
**226669.** Col. No. 14708. 'Kentu'. Market, Kazerun. Elevation 3,000 feet.  
**226670.** Col. No. 14802. 'Ketan'. Market, Kerman. Elevation 5,800 feet.
- 226671.** *SPINACIA OLERACEA* L. Chenopodiaceae. **Common spinach.**  
Col. No. 14572. Market, Ahwaz.
- 226672.** *STIPA* sp. Poaceae.  
Col. No. 14647. Twenty miles north of Dezful along road to Khorramabad. Elevation 1,200 feet.
- 226673.** *STIPA* sp.  
Col. No. 14821. Forty-three miles south of Sirjan along road to Bandar-Abbas. Elevation 6,000 feet. Xerophytic perennial; culms to 1.5 feet high.
- 226674.** *STIPA* sp.  
Col. No. 14832. Sixty-three miles south of Sirjan along road to Bandar-Abbas. Elevation 5,100 feet. Xerophytic perennial.
- 226675.** *TRIFOLIUM RESUPINATUM* L. Fabaceae. **Persian clover.**  
Col. No. 14601. Twenty-five miles northeast of Ahwaz. Small desert annual, to 4 inches high.
- 226676.** *TRIFOLIUM STRIATUM* L. **Knotted clover.**  
Col. No. 14641. Twenty miles north of Dezful along road to Khorramabad. Elevation 1,200 feet. Small desert annual to 3 inches high.
- 226677.** *TRIFOLIUM CHERLERI* L. **Clover.**  
Col. No. 14642. Twenty miles north of Dezful along road to Khorramabad. Elevation 1,200 feet. Desert annual to 3 inches high.
- 226678.** *TRIFOLIUM CAMPESTRE* Schreb. **Clover.**  
Col. No. 14659. Thirty miles north of Andimenshk along road to Khorramabad. Elevation 1,700 feet. Plant low, diffuse, annual; flowers yellow.
- 226679.** *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae. **Fenugreek.**  
Col. No. 14759. 'Shiraz Shambalileh'. Market, Shiraz. Elevation 5,200 feet.
- 226680.** *VIGNA SINENSIS* (Torner) Savi Fabaceae. **Common cowpea.**  
Col. No. 14784. 'Lubia Chesboboli'. Market, Kerman. Elevation 5,800 feet.

**226681 MELILOTUS SEGETALIS (Brot.) Seringe Fabaceae.****Sweetclover.**

From Portugal. Seeds presented by Manuel Bobone, Lisbon. Received June 30, 1955.

**226682 and 226683. HELIANTHUS ANNUUS L. Asteraceae.****Common sunflower.**

From the Union of South Africa. Seeds presented by the Agricultural College and Experimental Farm, Potchefstroom, Transvaal. Received June 27, 1955.

**226682.** 'Ella'.**226683.** 'Laan'.**226684 to 226703.**

From Guatemala. Seeds presented by the Servicio Cooperativo Inter-Americano de Agricultura "La Aurora." Received June 29, 1955.

**226684. MEDICAGO SATIVA L. Fabaceae.****Alfalfa.**

Grown at Finca Retana (Antigua). Frost resistant.

**226685 to 226703. ZEA MAYS L. Poaceae.****Corn.**

S = selfed; # = sibbed.

**226685.** 'Tiquioate Golden Yellow'. **226695.** No. 123A.(5S # S #).

**226686.** No. 12A.(5S 5# S #) 1946. **226696.** No. 129A.(3S # S #) 1946.

**226687.** No. 23A.(4S # S #) 1946. **226697.** No. 142.(2S # S 7S) 1948.

**226688.** No. 45.(5S 2#) 1944. **226698.** No. 158A.(5S # S #) 1946.

**226689.** No. 47A.(5S #). **226699.** No. 192.(4S #) 1944.

**226690.** No. 47A.-5S #). **226700.** No. 284.(5S # S #).

**226691.** No. 61D.(4S 2#). **226701.** No. 1449.(5S 11#) 1945.

**226692.** No. 74.(5S # S) 1944. **226702.** No. 1449.(7S #) 1945.

**226693.** No. 92A.(4S #). **226703.** No. 1483.(4S # S #) 1945.

**226694.** No. 123A.(6S #).

**226704 to 226714.**

From Okinawa. Plant material collected by J. L. Creech, Agricultural Explorer Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received June 30, 1955.

Collected June, 1955.

**226704. CAMELLIA MIYAGII (Koidz.) Makino & Nemoto Theaceae.**

Col. No. 145. Ukudan-shiri-yama, Genka. Flowers pale-pink or white. (Seeds.)

**226705 to 226707. CITRUS DEPRESSA Hayata Rutaceae.**

From Misato-son, Chibana. Budwood. Trees shrubby.

**226705.** Col. No. 150. 'Shiikwasha'.

**226706.** Col. No. 151. 'Kabuchi'.

**226707.** Col. No. 152. 'Otto'.

**226708. DIOSCOREA PENTAPHYLLA L. Dioscoreaceae.****Yam.**

Col. No. 142. 'Yama-imo'. Genka. Tubers; flesh white.

**226709. DIOSCOREA sp.**

Col. No. 143. 'Niga-kashu'. Genka. Tubers small, round, whitish.

**226710. DIOSCOREA sp.**

Col. No. 148. 'Amami-dokoro'. Amami Island. Tubers horizontal.

**226704 to 226714—Continued**

**226711.** JUNIPERUS LUTCHUENSIS Koidz. Pinaceae. **Juniper.**

Col. No. 149. 'Ryuky-hainezu'. Onna-son. Prostrate habit; foliage blue-green; ornamental. (Plants.)

**226712.** LYCORIS AUREA (L'Her.) Herbert. Amaryllidaceae. **Golden lycoris.**

Col. No. 144. 'Syokiran'. Genka. (Bulbs.)

**226713.** MUSA LIUKIUENSIS Makino Musaceae. **Banana.**

Col. No. 147. Growing on hillside above Genka. (Seeds.)

**226714.** RHODODENDRON TASHIROI Maxim. Ericaceae.

Col. No. 146. 'Yama-zakura Tsutsutsi'. Genka. Evergreen shrub; flowers small, light pink, appearing in January. (Seeds.)

**226715.** AVENA SATIVA L. Poaceae. **Common oats.**

From Australia. Seeds presented by the Commonwealth Scientific Industrial Research Organization, Canberra. Received June 30, 1955.

'Boyah'.

**226716 to 226746**

From Argentina. Seeds presented by the Estacion Experimental, Pergamino. Received June 30, 1955.

**226716.** AMARANTHUS MANTEGAZZIANUS Passer. Amaranthaceae.

'Chaclion'.

**226717.** BROMUS AULETICUS Nees Poaceae.

**Brome.**

'Cebadilla Chaguena'.

**226718.** BROMUS BREVIS Steud.

**Brome.**

'Cebadilla Pampeana'.

**226719 to 226724.** BROMUS WILLDENOWII Kunth

**Rescuegrass.**

**226719.** 'Cebadilla Criolla'.

**226720.** 'Cebadilla Criolla Comun'.

**226721.** 'Cebadilla Criolla Sel. Pergamino'.

**226722.** 'Cebadilla Criolla Sel. Pergamino (PF 195)'.

**226723.** 'Cebadilla Criolla Sel. No. 5'.

**226724.** 'Cebadilla Criolla Sel. O.U.-S'.

**226725.** BROMUS INERMIS Leyss.

**Smooth brome.**

'Cebadilla Perenne Sel. Pergamino'.

**226726.** DACTYLIS GLOMERATA L. Poaceae.

**Orchardgrass.**

'Pasto Ovillo Sel. Pergamino'.

**226727.** LOLIUM PERENNE L. Poaceae.

**Ryegrass.**

'Raigras Perenne Sel. Pergamino'.

**226728 to 226738.** MEDICAGO SATIVA L. Fabaceae.

**Alfalfa.**

**226728.** 'Comun Comercial'.

**226734.** 'Seleccion Masal M.S.'.

**226729.** 'Comun de Guatrache'.

**226735.** 'Seleccion Massaux'.

**226730.** 'Comun de Manfredi'.

**226736.** 'Seleccion Pergamino'.

**226731.** 'F.A.V. Nemasint'.

**226737.** 'Saladina'.

**226732.** 'F.A.V. San Martin'.

**226738.** 'Seleccion M-5'.

**226733.** 'Seleccion Magnif M-6'.

**226716 to 226746—Continued**

- 226739.** *PASPALUM DILATATUM* Fluegge Poaceae. **Dallisgrass.**  
 'Pasto Miel Sel. Pergamino'.  
**226740.** *PHALARIS MINOR* Retz. Poaceae. **Littleseed canarygrass.**  
 'Pasto Romane Sel. Pergamino'.  
**226741.** *PHALARIS AQUATICA* L. **Large canarygrass.**  
 'Falaris Bulbosa Sel. Pergamino'.  
**226742.** *PHLEUM PRATENSE* L. Poaceae. **Timothy.**  
 'Timote Sel. Pergamino'.  
**226743 to 226745.** *SORGHUM ALMUM* Parodi Poaceae.  
**226743.** 'Sorgo Negro Pergamino A-33'.  
**226744.** 'Sorgo Negro Pergamino C-4'.  
**226745.** 'Sorgo Negro Pergamino E-12'.  
**226746.** *TRIFOLIUM PRATENSE* L. Fabaceae. **Red clover.**

**226747 to 226749.**

From the Anglo-Egyptian Sudan. Seeds presented by the Field Station, Silwood Park, Sunninghill, Berkshire, England. Received July 1, 1955.

- 226747.** *GOSSYPIUM AREYSIANUM* (Deflers) Hutch. Malvaceae. **Cotton.**  
 WE3-1/47.  
**226748.** *GOSSYPIUM ROBINSONII* F. Muell. **Cotton.**  
 WC2-1/54-55.  
**226749.** *GOSSYPIUM SOMALENSE* (Gurke) Hutch. **Cotton.**  
 WE2-2/54-55.

**226750 to 226752.**

From the Philippines. Seeds presented by the Special Technical Economic Mission, American Embassy, Manila. Received July 5, 1955.

- 226750.** *COFFEA EXCELSA* Cheval. Rubiaceae. **Congo coffee.**  
**226751.** *COFFEA LIBERICA* Bull. **Liberian coffee.**  
**226752.** *COFFEA CANEPHORA* Pierre ex Froehn. **coffee.**

**226753 to 226772.**

From Okinawa. Plants collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 6, 1955.

Collected June 27 to 29, 1955.

- 226753.** *BREDIA HIRSUTA* Blume Melastomataceae.  
 Col. No. 161. 'Hau-renfa'. Along stream in shady evergreen woods on Hentona-yama, Kunigana-son. Shrub small; flowers purple.  
**226754.** *CAMELLIA JAPONICA* var. *HOZANENSIS* (Hay.) Yamamoto Theaceae. **Common camellia.**  
 Col. No. 178. 'Chibachi'. Forestry Department, Ryukyu Island Nursery. Characterized by small pale-red flowers.  
**226755.** *CAMELLIA JAPONICA* var. *MACROPCARPA* Masumune  
 Col. No. 168. 'Chibachi'. Forest of Hentona-yama, Kunigami. Flowers red; fruit extra large.



## 226753 to 226772—Continued

226756. *CAMELLIA LUTCHUENSIS* Ito

Col. No. 163. Hillside of Hentona-yama, Kunigami. Tree small; resembles *C. sasanqua*; flowers pale-pink.

226757. *CAMELLIA MIYAGII* (Koidz.) Makino & Nemoto

Col. No. 179. Forestry Department of Ryukyu Island Nursery. Shrub small; flowers white or pale-pink.

226758. *CAMELLIA TEGMENTOSA* (Koidz.) Makino & Nemoto

Col. No. 167. 'Sasankwa-moeaki'. Forest of Hentona-yama, Kunigami. Small-leaved species similar in habit to *C. sasanqua*.

226759. *CERBERA ODOLLAM* Gaertn. Apocynaceae.

Col. No. 173. Seashore of Kunigani-son. Shrub with whorled branches; flowers white or pinkish.

226760. *CITRUS DEPRESSA* Hayata Rutaceae.

Col. No. 159. On Mateira-gawa, Hentona District, Kunigani-son. Small tree.

226761. *CITRUS* sp.

Col. No. 169. Forest of Hentona-yama, Kunigami. Large vigorous tree.

226762. *DIOSCOREA KELUNGENSIS* Hayata Dioscoreaceae. Yam.

Col. No. 153. 'Kayamu'. Yakazi Island. Pandanus scrub at seashore; tubers white, vertical, to about 10 inches long; juice white.

226763. *ELEOCHARIS DULCIS* (Burm. f.) Henschel Cyperaceae. Matai.

Col. No. 175. In abandoned rice paddy at Okuma.

226764. *ILEX MUTCHAGARA* Makino Aquifoliaceae. Holly.

Col. No. 166. 'Fagua-muchagara'. Forest on Hentona-yama. Dense shrub resembling *I. crenata* but with large leaves.

226765. *LIGUSTRUM LIUKIUENSE* Koidz. Oleaceae. Privet.

Col. No. 162. 'Okinawa Ibota'. Along stream on Hentona-yama, Kunigani-son. Dwarf shrub; leaves to ¼ inch long; probably evergreen.

226766. *LYCORIS AUREA* (L'Her.) Herb. Amaryllidaceae. Golden lycoris.

Col. No. 176. Growing in garden at Agricultural College of Ryukyu, Nago.

226767. *LYCORIS RADIATA* (L'Her.) Herb. Shorttube lycoris.

Col. No. 177. Growing in garden at Agricultural College of Ryuku, Nago.

226768. *MURRAYA PANICULATA* (L.) Jack Rutaceae. Common jasminorange.

Col. No. 156. 'Gikiji' Soshi-ugan, Nakazin-son. Evergreen shrub; leaves pinnate, shiny, dark green.

226769. *PHOTINIA WRIGHTIANA* Maxim. Malaceae.

Col. No. 171. 'Ununufa-akasa'. Hentona-yama, Kunigami. Very desirable shrub; leaves lanceolate, numerous spined serrations.

226770. *RAPHIOLEPSIS UMBELLATA* (Thunb.) Schneid. Malaceae. Yeddo-hawthorn.

Col. No. 172. 'Tikachi'. Hentona-yama, Kunigami. Evergreen shrub; flowers white, fragrant, in panicles.

226771. *SATUNTONIA HEXAPHYLLA* Dcne. Lardizabalaceae. Japanese stauntonvine.

Col. No. 165. 'Rotunda'. Shaded evergreen forest of Hentona-yama. Vine small; leaves simple; fruits oval, edible.

**226753 to 226772—Continued**

**226772.** *TASHIROEA OKINAWENSIS* Matsum. Melastomataceae.

Col. No. 170. Semishade along mountain path on Hentona-yama, Kunigami  
Small shrub; flowers bright purple.

**226773 to 226782.**

From Iran. Collected by H. S. Gentry, Agricultural Explorer, Plant Introduction  
Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 6,  
1955.

Collected June 28, 1955.

**226773.** *ALLIUM* sp. Liliaceae.

Col. No. 15101. Near Kuhe Barmeh Firuz, Fars. Elevation 10,000 feet. Bulbs  
eaten cooked.

**226774.** *AGROPYRON* sp. Poaceae.

Col. No. 15093. South ridge of Kuhe Barmeh Firuz, Fars. Elevation 10,000  
feet. Closely browsed by sheep. (Roots.)

**226775.** *AGROPYRON* sp.

Col. No. 11506. Between Komehr and Kowkun Valleys. Elevation 8,000 feet.  
Rather xerophytic, tough, bushy perennial; browsed by sheep and goats. (Roots.)

**226776.** *AGROPYRON INTERMEDIUM* (Host.) Beauv. **Intermediate wheatgrass.**

Col. No. 15107. Kowkun Valley, Fars. Elevation 7,000 feet. Tough, rhizo-  
matous perennial, forming colonies. (roots.)

**226777.** *ALOPECURUS* sp. Poaceae.

Col. No. 15094. South ridge of Kuhe Barmeh Firuz, Fars. Elevation 10,000  
feet. Closely grazed perennial on open rocky slope. (Roots.)

**226778.** *CYNODON DACTYLON* (L.) Pers. Poaceae. **Bermudagrass.**

Col. No. 15105. Between Komehr and Kowkun Valleys, Fars. Elevation 8,500  
feet. Closely grazed, fine-leaved perennial. (Roots.)

**226779.** (Undetermined.) Fabaceae.

Col. No. 15098. Northern ridge of Kuhe Barmeh Firuz, Fars. Elevation 10,000  
feet. Low spreading perennial, closely browsed by sheep. (Plants.)

**226780.** (Undetermined.) Poaceae.

Col. No. 15102. Near Komehr, Fars. Elevation 8,800 feet. Perennial, sod-  
forming grass. (Plants.)

**226781.** (Undetermined.)

Col. No. 15100. Northern ridge of Kuhe Barmeh Firuz, Fars. Elevation 10,000  
feet. Small perennial herb; liked by sheep and goats. (Plants.)

**226782.** (Undetermined.)

Col. No. 15104. Komehr Valley, Fars. Elevation 7,500 feet. Perennial, form-  
ing sod in meadow and along ditches; closely grazed. (Roots.)

**226783 to 226789.**

From Okinawa. Seeds collected by J. L. Creech, Agricultural Explorer, Plant Intro-  
duction Section, Horticultural Crops Research Branch, Beltsville, Md. Received  
July 6, 1955.

Collected June 27 to 29, 1955.

**226783.** *ACER ITOANUM* Hayata ex Koidz. Aceraceae. **Maple.**

Col. No. 158. 'Mamiku'. Along roadside near Nakazin-san. Evergreen tree;  
bark reddish-gray; leaves simple.

**226783 to 226789—Continued****226784.** *BUXUS LIUKIUENSIS* Makino Buxaceae.**Box.**Col. No. 174. 'Koruguwa-gü'. Kunigami-son. Small evergreen shrub; similar in appearance to *B. koreana*.**226785.** *HYDRANGEA LIUKIUENSIS* Nakai Hydrangeaceae.

Col. No. 164. 'Riukiu-konterigi'. Along mountain stream of Hentona-yama. Small shrub; flowers white, in panicles; about 1/4 inch across with 4 sterile bracts.

**226786.** *MALLOTUS PHILIPPINENSIS* (Lam.) Muell.-Arg. Euphorbiaceae.**Kamalatree.**

Col. No. 154. 'Akamamiki-firajika'. Mountains of Kunigami. Small, evergreen tree; bark gray.

**226787.** *PONGAMI PINNAT* (L.) W. F. Wight Fabaceae. **Poongaoil pongamia.**

Col. No. 157. 'Okaha'. Mountain side, Nakazin-san, in northern Okinawa. Deciduous tree; bark gray-brown.

**226788.** *STYRAX KOTOENSIS* Hayata Styracaceae.**Snowbell.**

Col. No. 160. 'Samagi'. Mateira-gewa, Hentona district, Kunigami-son. Small tree; bark gray and black; fruits globose.

**226789.** *VIBURNUM AWABUKII* C. Koch Caprifoliaceae.

Col. No. 155. 'Sasagi'. Shoshi-ugan, Nakazin-san. Bushy, evergreen tree; young foliage reddish; fruits bright red, oval, in broad panicles.

**226790.** *GUIZOTIA ABYSSINICA* (L.f.) Cass. Asteraceae.

From Ethiopia. Seed collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 6, 1955.

Col. No. 376. 'Morg'. Market, Addis Ababa. May 17, 1955.

**226791.** *MISCANTHIDIUM VIOLACEUM* (Schum.) Robyns Poaceae.

From the Union of South Africa. Seeds presented by the Experiment Station of the South African Sugar Association, Natal. Received July 7, 1955.

**226792 to 226794.**

From Australia. Seeds presented by H. G. Kershaw, "Glenview," Pymble, New South Wales. Received July 7, 1955.

**226792.** *CALLISTEMON ACUMINATUS* Cheel. Myrtaceae.**Bottlebrush.****226793.** *CLIANTHUS SPECIOSUS* Steud. Fabaceae.**Parrotbeak.****226794.** *MELALEUCA HYPERICIFOLIA* J. E. Sm. Myrtaceae.**226795.** *HIBISCUS CANNABINUS* L. Malvaceae.**Kenaf.**

From India. Seeds presented by V. G. Desai, Nadiad, Kavia, through the American Consulate General, Bombay. Received July 7, 1955.

**226796 to 226804.** *LOTUS CORNICULATUS* L. Fabaceae.**Birdsfoot trefoil.**

From the Netherlands. Seeds presented by the Ministry of Agriculture, Wageningen. Received July 7, 1955.

Originally from Canada.

**226796.** LOC—55.190.**226801.** Loc. 55.05 L.**226797.** 55.5f 001.**226802.** Loc. 55.152.**226798.** 55.5f 002.**226803.** Loc. 55.199.**226799.** Loc. 55.00 f.**226804.** Loc. 55.300.**226800.** Loc. 55.05 f.



**226805 to 226836.**

From Japan. Seeds presented by A. Moriya, Utsunomiya. Received July 8, 1955.  
From the Island of Honshu.

**226805.** *AGROPYRON SEMICOSTATUM* (Steud.) Nees ex Boiss. Poaceae.  
Drooping wheatgrass.

Utsunomiya.

**226806 and 226807.** *AGROSTIS CLAVATA* Trin. Poaceae. Bentgrass.

**226806.** Osawa Village.

**226807.** Sanpei-Pass, Gumma Prefecture.

**226808.** *AGROSTIS CLAVATA* var. *NUKABO* Ohwi Bentgrass.

Nisinasuno-Machi.

**226809.** *AGROSTIS FLACCIDA* Hack. Bentgrass.

Mt. Kosin, Tochigi Prefecture.

**226810.** *AGROSTIS NIPPONENSIS* Honda Bentgrass.

Kurodawara.

**226811.** *ARUNDINELLA HIRTA* var. *CILIATA* (Thunb.) Koidz. Poaceae.

Nisinasuno-Machi.

**226812 to 226814.** *BRACHYPODIUM JAPONICUM* Miq. Poaceae Falsebrome.

**226812.** Nisinasuno-Machi.

**226813.** Mount Takahara, Tochigi Prefecture.

**226814.** Mount Koshin, Tochigi Prefecture.

**226815 and 226816.** *BROMUS SECALINUS* L. Poaceae. Chess brome.

**226815.** Mount Koshin.

**226816.** Osima-Village, Miyagi Prefecture.

**226817.** *BROMUS WILLDENOWII* Kunth Rescuegrass.

Mikuni-Bridge, Ibaragi Prefecture.

**226818.** *CALAMAGROSTIS ARUNDINACEA* var. *SCIUTOIDES* (Franch. & Sav.) Hack.

Poaceae.

Reedgrass.

Nisinasuno-Machi.

**226819.** *CYMOPOGON GOERINGII* (Steud.) A. Camus Poaceae.

Nisinasuno-Machi.

**226820.** *DIARRHENA JAPONICA* Franch. & Sav. Poaceae.

Mount Kosin, Tochigi Prefecture.

**226821.** *ERAGROSTIS FERRUGINEA* (Thunb.) Beauv. Poaceae. Lovegrass.

Nisinasuno-Machi.

**226822 and 226823.** *ERIOCHLOA VILLOSA* (Thunb.) Kunth Poaceae.  
Hairy cupgrass.

**226822.** Okamoto, suburb at Utsunomiya.

**226823.** Utsunomiya.

**226824.** *FESTUCA SUBULATA* var. *JAPONICA* Hack. Poaceae. Fescue.

Sanpei-Pass, Gumma Prefecture.

**226825.** *FESTUCA* sp.

Yumoto, Nikko, Utsunomiya.

**226826.** *GLYCERIA LITHUANICA* (Gorski) Lindm. Poaceae. Mannagrass.

Yamanohana, Oze, Gumma Prefecture.



**226805 to 226836—Continued**

**226827.** *GLYCERIA REMOTA* var. *JAPONICA* Hack. Mannagrass.

Mount Hiuti, Oze, Fukusima Prefecture.

**226828.** *GLYCERIA TONGLENSIS* C. B. Clarke Poaceae. Mannagrass.

Utsunomiya.

**226829.** *ISCHAEMUM CRASSIPES* (Steud.) Thell. Poaceae.

Yakusidi-Village.

**226830.** *MISCANTHUS MATSUMURAE* Hack. Poaceae. Silvergrass.

Mount Takahara.

**226831.** *MISCANTHUS SINENSIS* Anderss. Chinese silvergrass.

Nisinasuno-Machi.

**226832.** *POA* sp. Poaceae.

Nisinasuno-Machi. Received as *P. alopecuroides*; an apparently unpublished name.

**226833.** *POA NIPPONICA* Koidz. Bluegrass.

Utsunomiya.

**226834.** *SETARIA GLAUCA* (L.) Beauv. Poaceae. Millet.

Nisinasuno-Machi.

**226835.** *SPODIOPOGON COTULIFER* (Thunb.) Hack. Poaceae.

Nisinasuno-Machi.

**226836.** *TRisetum FLAVESCENS* var. *BIFIDUS* Makino Poaceae.

Utsunomiya.

**226837 to 226851. SORGHUM VULGARE Pers. Poaceae.**

From the United States. Seeds collected by F. M. Simoons, University of California, Berkeley, California. Received July 11, 1955.

Original sources indicated.

**226837.** Jos, Nigeria.

**226838.** 19. 'Bullay Mashilla'. Ethiopia.

**226839.** 32. 'Bullay Mashilla'. Begemdir Province, Ethiopia.

**226840.** M-4 'Bullay Mashilla'. Mariam Deber, Ethiopia.

**226841.** 'Dauwa Irigwe Nwiya Ke'. Miango, Nigeria.

**226842.** 'Dauwa Irigwe Nwiya Sho'. Miango, Nigeria.

**226843.** 'Dauwa Irigwe Ruan Kalay'. Miango, Nigeria.

**226844.** 'Dirkina'. Begemdir Province, Ethiopia.

**226845.** 'El Obeid'. Anglo-Egyptian Sudan.

**226846.** 'Kwontch'. Bengemdir Province, Ethiopia.

**226847.** S-9. 'Mayla'. Silaszi, Ethiopia.

**226848.** S-10. 'Mayla'. Silaszi, Ethiopia.

**226849.** 'Warayta Mashilla'. Wallaka Village, Ethiopia.

**226850.** 18-K. 'Warayta Mashilla'. Ethiopia.

**226851.** 'Zangada'. Northeast of Debre Tabor, Amus Wonz District, Ethiopia.

**226852 to 226930. PHASEOLUS VULGARIS L. Fabaceae.****Common bean.**

From New York. Seeds at the Regional Plant Introduction Station, Geneva. Numbered July 11, 1955.

Presented by Dr. O. H. Pearson, Eastern States Exchange, West Springfield, Mass.; originally from Dr. A. S. Archimowitsch, Brooklyn, N. Y., who obtained seeds in countries listed.

- 226852. N13. 'Abigarrada Roja'. Ukraine.
- 226853. N17. 'Abigarrada Roja'. Ukraine.
- 226854. N75. 'Alubia Abigarrada'. Spain.
- 226855. N96. 'Alubia Abigarrada'. Ukraine.
- 226856. N118. 'Alubia Blanca de Asturia'. Spain.
- 226857. N68. 'Alubia Blanca de Longrono'. Spain.
- 226858. N116. 'Alubia Blanca Leonera'. Spain.
- 226859. N60. 'Alubia de Aranjuer'. Spain.
- 226860. N104. 'Alubia de Lima'. Spain.
- 226861. N117. 'Alubia Pinta'. Spain.
- 226862. N114. 'Alubia Pinta de Leon'. Spain.
- 226863. N74. 'Alubia Pinta Saldana'. Spain.
- 226864. N91. 'Alubia Verde'. Ukraine.
- 226865. N9. 'Amarilla Enana'. Ukraine.
- 226866. N106. 'Argelia'. Spain.
- 226867. N105. 'Banasa Oro'. Spain.
- 226868. N41. 'Beste von Allen'. Germany.
- 226869. N4. 'Blanca'. Ukraine.
- 226870. N67. 'Blanca Redonda de Saldana'. Spain.
- 226871. N2. 'Bomba'. Ukraine.
- 226872. N8. 'Bomba'. Ukraine.
- 226873. N86. 'Bomba Blanca'. Ukraine.
- 226874. N73. 'Bomba de Aceituna'. Spain.
- 226875. N102. 'Carnaval de Venecia'. Spain.
- 226876. N14. 'Chudo of Paris'. Ukraine.
- 226877. N16. 'Chudo of Paris' (early). Ukraine.
- 226878. N18. 'Chudo of Paris'. Ukraine.
- 226879. N84. 'Chudo of Paris'. Ukraine.
- 226880. N92. 'Chudo of Paris'. Ukraine.
- 226881. N36. 'Dopp. Holland Princes'. Germany.
- 226882. N70. 'Finea de la Rasa'. Spain.
- 226883. N34. 'Flageolet'. France.
- 226884. N55. 'Gellhorn'. Germany.
- 226885. N35. 'Genfor Markt'. Germany.
- 226886. N39. 'Goldhorn Gallhilsige'. Germany.
- 226887. N40. 'Grinstige'. Germany.
- 226888. N121. 'Judia Britle'. Spain.

**226852 to 226930—Continued**

226889. N56. 'Judia de Savilla'. Spain.  
226890. N57. 'Judia de Valladolid'. Spain.  
226891. N63. 'Judia Pintas'. Spain.  
226892. N22. 'Lopata'. Ukraine.  
226893. N21. 'Maculata'. Ukraine.  
226894. N108. 'Mantecoza de Aragon'. Spain.  
226895. N42a. 'Mont D'os'. France.  
226896. N42b. 'Mont D'os'. France.  
226897. N65. 'Morada'. Spain.  
226898. N113. 'Pan de Libano'. Spain.  
226899. N120. 'President Roosevelt'. Spain.  
226900. N115. 'Prinzesa'. Spain.  
226901. N119. 'Prinzesa Perfeceion'. Spain.  
226902. N5. 'Riñon'. Ukraine.  
226903. N6. 'Riñon'. Ukraine.  
226904. N7. 'Riñon'. Ukraine.  
226905. N72. 'Riñon Blanca'. Spain.  
226906. N69. 'Riñon de Saldana'. Spain.  
226907. N111. 'Sable Amarillo'. Spain.  
226908. N61. 'Sable Verde'. Spain.  
226909. N64. 'Sable Verde'. Spain.  
226910. N66. 'Sable Verde'. Spain.  
226911. N110. 'Sable Verde'. Spain.  
226912. N83. 'Saltano'. France.  
226913. N44a. 'San Fiacre'. Ukraine.  
226914. N44b. 'San Fiacre'. Ukraine.  
226915. N59. 'Sparchevaia Custovaia'. Ukraine.  
226916. N100. 'Sparchevaia Custovaia' (early). Spain.  
226917. N47a. 'Sparshchevaia'. Ukraine.  
226918. N47b. 'Sparshchevaia'. Ukraine.  
226919. N48. 'Sparshchevaia'. France.  
226920. N49. 'Sparshchevia Voscovaia'. Ukraine.  
226921. N50. 'Sparshchevia Voscovaia'. Ukraine.  
226922. N51. 'Sparshchevia Voscovaia'. Ukraine.  
226923. N52. 'Sparshchevia Voscovaia'. Ukraine.  
226924. N93a. 'Triumfo' (very early). Ukraine.  
226925. N93b. 'Triumfo' (very early). Ukraine.  
226926. N87. 'Wilhelm'. Ukraine.  
226927. N97. 'Zernovaia'. Ukraine.  
226928. N11. 'Zernovaia Custovaia'. Ukraine.  
226929. N25. 'Zernovaia Custovaia'. France.  
226930. N27. 'Zernovaia Custovaia'. France.

**226931 to 226939. PHASEOLUS VULGARIS L. Fabaceae.****Common bean.**

From Washington. Seeds held at the Regional Plant Introduction Station, Pullman.  
 | Numbered July 11, 1955.

From Prof. F. L. Smith, University of California, Davis, Calif.

Originally from Gatersleben, Germany.

**226931.** 'Heinrichs Reisen'

**226936.** 'Wachs Digoïn'.

**226932.** 'Hundert Für Eine'.

**226937.** 'Wachs Ideal'.

**226933.** 'Illsenburger Bunt'.

**226938.** 'Wachs Hundert Für Eine'.

**226934.** 'Illsenburger Weisse'.

**226939.** 'Weibulls Stella'.

**226935.** 'Konserva'.

**226940 to 226954.**

From Ethiopia. Seeds collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md.  
 Received July 11, 1955.

Collected March and May, 1955.

**226940.** AMMI COPTICUM L. Apiaceae.

Col. No. 378. 'Netch Azmood'. Market, Addis Ababa. A spice.

**226941.** BOTHRIODILOA ISCHAEMUM (L.) Keng Poaceae. **Turkestan bluestem.**

Col. No. 362. Along roadside about 180 miles south of Addis Ababa. Bunch-grass about 4 feet high.

**226942.** BETA sp. Chenopodiaceae.

Col. No. 349. Along side of road at edge of Addis Ababa. About 2 feet high, sparsely branched.

**226943 to 226945.** CICER ARIETINUM L. Fabaceae.

**Chickpea.**

**226943.** Col. No. 398. 'Grande Bico-Garbanzo'. Market, Addis Ababa.  
 Small, popular variety.

**226944.** Col. No. 399. 'Grande Bico-Garbanzo'. Market, Addis Ababa.

**226945.** Col. No. 400. 'Grande Bico-Garbanzo'. Market, Addis Ababa.

**226946.** ERAGROSTIS TEF (Zucc.) Trotter Poaceae.

**Teff.**

Col. No. 386. Market, Addis Ababa.

**226947.** HORDEUM sp. Poaceae.

Col. No. 408. Market, Addis Ababa.

**226948.** LATHYRUS SATIVUS L. Fabaceae.

**Grass peavine.**

Col. No. 387. Market, Addis Ababa.

**226949.** MEDICAGO POLYMORPHA var. VULGARIS (Benth.) Shinnars Fabaceae.

**California burclover.**

Col. No. 364. Vacant lot, Addis Ababa.

**226950.** RUMEX sp. Polygonaceae.

Col. No. 369. Along edge of streets, Jimma.

**226951.** SECALE CEREALE L. Poaceae.

**Rye.**

Col. No. 404. Market, Addis Ababa.

**226952.** TRIFOLIUM PRATENSE L. Fabaceae.

**Red clover.**

Col. No. 363. Roadside, about 108 miles south of Addis Ababa.



**226940 to 226954—Continued****226953.** *TRIFOLIUM REPENS* L.**Whiteclover.**

Col. No. 361. Roadside, about 160 miles south of Addis Ababa. Grows about 6 inches high.

**226954.** *TRIFOLIUM UMBELLULATUM* A. Rich.**Clover.**

Col. No. 370. Jimma. Plants upright, grow well in black, wet soils.

**226955 to 226966.**

From Kenya. Seeds presented by the Grassland Research Station, Department of Agriculture, Kitale. Received July 12, 1955.

**226955.** *ANDROPOGON CANALICULATUS* Schumach. Poaceae.**Bluestem.**

No. K53913.

**226956.** *ANDROPOGON CHRYSOSTACHYUS* Steud.**Bluestem.**

No. K5278.

**226957.** *ANDROPOGON DUMMERI* Stapf**Bluestem.****226958.** *BOTHRIOCHLOA INSCULPTA* (Hochst.) A. Camus Poaceae.

No. K52299.

**226959.** *BOTHRIOCHLOA PERTUSA* (L.) A. Camus

No. K53510.

**226960.** *BOTHRIOCHLOA INSCULPTA* var. *VEGETIOR* (Hack.) C. E. Hubb.

No. K54116.

**226961.** *BOTHRIOCHLOA RADICANS* (Lehm.) A. Camus

No. K52356.

**226962.** *CHRYSOPOGON AUCHERI* var. *QUINQUEPLUMIS* Stapf Poaceae.**226963.** *CYMBOPOGON AFRONARDUS* Stapf Poaceae.

No. K515x#.

**226964.** *HACKELOCHLOA GRANULARIS* (L.) Kuntze Poaceae.

No. 3906.

**226965.** *HETEROPOGON MELANOCARPUS* (Ell.) Benth. Poaceae.**Sweet tanglehead.**

No. AB3741.

**226966.** *SACCHARUM SPONTANEUM* var. *AEGYPTIACUM* Hack. Poaceae.**Sugarcane.****226967 to 226992.**

From Japan. Collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 12, 1955.

Collected July 5 to 7, 1955.

**226967.** *ACER DISTYLM* Sieb. & Zucc. Aceraceae.**Maple.**

Col. No. 188. 'Maroba Kaede'. Aokigahara Forest, foot of Mount Fuji.

**226968.** *CLEMATIS OCHOTENSIS* Poir. Ranunculaceae.

Col. No. 203. At timberline, Mount Fuji. Small vine; flowers dark purple.

**226969.** *CORNUS KOUSA* Hance Cornaceae.**Kousa dogwood.**

Col. No. 196. 'Yamaboshi'. Open meadow above Aokigahara Forest. Typical except for pink bracts and reddish leaves. (Cuttings).

**226970.** *DIOSCOREA TENUIPES* Franch. & Sav. Dioscoreaceae.**Yam.**

Col. No. 192. 'Hime-dokoro'. Open meadow above Aokigahara Forest. Flowers of male plant orange; tubers roundish.

**226967 to 226992—Continued**

- 226971 and 226972.** *DIOSCOREA TOKORO* Makino Yam.
- 226971.** Col. No. 190. Open meadow above Aokigahara Forest. Leaves cordate, margin purple; tubers horizontal, elongated.
- 226972.** Col. No. 191. Open meadow above Aokigahara Forest. Leaves cordate, margin purple; tubers horizontal, elongated.
- 226973.** *FRAGARIA NIPPONICA* Makino Rosaceae. Strawberry.
- Col. No. 205. At timberline, Mount Fuji. Flowers small, white.
- 226974.** *HYDRANGEA SERRATA* f. *ACUMINATA* (Sieb. & Zucc.) Wils. Hydrangeaceae.
- Col. No. 186. 'Sawagaku'. Aokigahara Forest, foot of Mount Fuji. Pale-pink sterile florets.
- 226975.** *HYDRANGEA HIRTA* Siebold
- Col. No. 180. 'Shiba-ajisai'. Aokigahara Forest, foot of Mount Fuji. Small shrub with pale-blue flowers in umbels about 2 inches across.
- 226976.** *ILEX CRENATA* Thunb. Aquifoliaceae. Japanese holly.
- Col. No. 187. 'Intsuga'. Aokigahara Forest, foot of Mount Fuji. Plants with unusually long narrow leaves.
- 226977.** *ILEX SUGEROKII* Maxim. Sugeroki holly.
- Col. No. 181. 'Aka-tsuge'. Forest of Aokigahara, in dense shade, foot of Mount Fuji. Elevation 3,600 feet. Evergreen shrub; leaves ovate, very glossy; fruits red.
- 226978.** *LILIUM AURATUM* Lindl. Liliaceae. Goldband lily.
- Col. No. 199. 'Yama-yuri'. Aokigahara Forest, foot of Mount Fuji. Growing on rocks.
- 226979.** *MENZIESIA* sp. Ericaceae.
- Col. No. 182. 'Sairin Yoraku'. Aokigahara Forest, foot of Mount Fuji. Deciduous shrub.
- 226980.** *PAEONIA JAPONICA* Miyabe & Takeda Ranunculaceae.
- Col. No. 193. 'Yama-sho-kuyaku'. Semishade in Aokigahara Forest, foot of Mount Fuji. Flowers white, appearing in April.
- 226981.** *PIERIS JAPONICA* (Thunb.) G. Don Ericaceae. Japanese pieris.
- Col. No. 198. 'Asebi'. Aokigahara Forest, foot of Mount Fuji. Plant unusually dense; leaves dark green, broad-ovate to obovate.
- 226982.** *PYROLA ASARIFOLIA* var. *INCARNATA* (DC.) Fernald Pyrolaceae.
- Col. No. 202. At timberline, Mount Fuji. Ground covering plant with basal leaves in semi-shaded area; flowers pink, in spikes up to 4 inches long.
- 226983.** *PYROLA MEDIA* Sw.
- Col. No. 189. 'Marubano-ichiyakusa'; 'Nephrophylla'. Aokigahara Forest, foot of Mount Fuji. Plants prostrate; leaves rounded; flowers white, on scape about 6 inches long.
- 226984.** *RHODODENDRON FAUREI* Franch. Ericaceae.
- Col. No. 201. At timber line, Mount Fuji. Elevation 7,500 feet. Flowers yellowish with distinct blotch, ranging from almost white to pink-striped.
- 226985.** *RHODODENDRON KEISKEI* Miq.
- Col. No. 195. 'Hikage-tsutsuji'. Semi-shade in Aokigahara Forest, foot of Mount Fuji. Low-growing shrub; flowers yellow.
- 226986.** *ROSA ACICULARIS* var. *NIPPONENSIS* (Crip.) Koehne Rosaceae. Nippon prickly rose.
- Col. No. 200. *Larix-Tsuga* woods at timberline of Mount Fuji. Elevation 7,500 feet. An alpine species; flowers red, single; leaves pale green, ovate.

**226967 to 226992—Continued**

**226987.** *SKIMMIA REPENS* Nakai Rutaceae.

Col. No. 184. 'Tsuru-shikimi'. Aokigahara Forest, foot of Mount Fuji. Small evergreen subshrub; leaves narrow, ovate, entire, whorled; fruits tiny, red, in terminal clusters.

**226988.** *SORBUS GRACILIS* (Sieb. & Zucc.) K. Koch Malaceae. **Mountainash.**

Col. No. 185. Aokigahara Forest, foot of Mount Fuji. Woody shrub; leaves glossy, compound; fruits reddish, in terminal clusters.

**226989.** *TRIPETALEIA PANICULATA* Sieb. & Zucc. Ericaceae.

Col. No. 183. 'Ha-tsutsutsi'. Aokigahara Forest, foot of Mount Fuji. Woody shrub; leaves alternate, ovate; flowers white, in terminal spikes.

**226990 and 226991.** *VACCINIUM VITIS-IDAEA* L. Vacciniaceae.

**226990.** Col. No. 194. 'Kokamomo'. Semi-shade in Aokigahara Forest, foot of Mount Fuji. Low ground-covering, evergreen plants.

**226991.** Col. No. 204. At timberline, Mount Fuji. A form with pure white flowers.

**226992.** *VIBURNUM FURCATUM* Blume Caprifoliaceae. **Forked viburnum.**

Col. No. 197. 'Okamenoki'. Aokigahara Forest. Elevation 3,000 feet. Large shrub; flowers white, in large terminal clusters; fruits red.

**226993.** *CARTHAMUS TINCTORIUS* L. Asteraceae. **Safflower.**

From Israel. Seeds presented by the United States Operations Mission to Israel, Tel Aviv. Received July 12, 1955.

**226994.** *ORMOSIA* sp. Fabaceae.

From the Canal Zone. Seeds presented by the Canal Zone Experiment Gardens, Summit. Received July 13, 1955.

**226995 to 227000.**

From Uruguay. Seeds presented by the Instituto Fitotecnico y Semillero Nacional 'La Estanzuela,' Colonia. Received July 13, 1955.

**226995.** *TRIFOLIUM PRATENSE* L. Fabaceae. **Red clover.**

**226996.** *TRIFOLIUM REPENS* L. **Whiteclover.**

64/65/51.

**226997 to 227000.** *TRIFOLIUM SUBTERRANEUM* L. **Subterranean clover.**

**226997.** 'Bass 19/48'. **226999.** L.E. 68/31.

**226998.** 'KYBYBOLITE 56/50'. **227000.** 'Nangeela 18/48'.

**227001.** *MELILOTUS MESSANENSIS* (L.) All. Fabaceae. **Sweetclover.**

From Israel. Seeds presented by the Agricultural Experiment Station, Nve-Yaar. Received July 21, 1955.

No. 997-1.

**227002.** *GOSSYPIUM* (hybrid). Malvaceae. **Cotton.**

From the Anglo-Egyptian Sudan. Seeds presented by Dr. Dark, Khartoum, North Shambat. Received July 25, 1955.

BAR 12/10. B<sub>2</sub>B<sub>6m</sub> on a BP<sub>32</sub> stock).

**227003 to 227006.**

From Portugal. Seeds presented by Miguel Moutinho Abosia Lere, Lisbon. Received July 25, 1955.

**227003.** *MELILOTUS SULCATA* Desf. Fabaceae. **Sweetclover.**

From a farm near Lisbon.

**227003 to 227006—Continued****227004 to 227006.** *MELILOTUS SEGETALIS* (Brot.) Seringe.**Sweetclover.****227004.** I.S.A. 1955.**227005.** I.S.A. 199.**227006.** From a commercial source, Lisbon.**227007 to 227053.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 13, 1955.

Collected April and May, 1955.

**227007.** *HYPARRHENIA HIRTA* (L.) Stapf Poaceae.

Col. No. 14621. Fifteen to 18 miles south of Shushtar. Elevation 800 feet. Sandstone rocks. Bushy, spreading perennial to 2 feet high.

**227008.** *ASTRAGALUS* sp. Fabaceae.

Col. No. 14736. Thirty-three miles east of Kazerun. Elevation 4,200 feet. Erect annual; eaten by cattle.

**227009.** *AVENA* sp. Poaceae.

Col. No. 14650. Thirty miles north of Andimenshk along the road to Khorramabad. Elevation 1,700 feet.

**227010.** *BETA VULGARIS* L. Chenopodiaceae.**Common beet.**

Col. No. 14589. Irrigated field near Ahwaz.

**227011.** *BRACHYPODIUM* sp. Poaceae.

Col. No. 14603. Near Abe-e Gonji, halfway between Ahwaz and Shushtar. Annual grass, to 1 foot high.

**227012.** *BRASSICA OLERACEA* var. *CAPITATA* L. Brassicaceae.**Cabbage.**

Col. No. 14568. 'Kalam'. Market, Ahwaz.

**227013.** *CUCUMIS SATIVUS* L. Cucurbitaceae.**Cucumber.**

Col. No. 14566. Market, Ahwaz. A short yellowish-green variety.

**227014.** *DAUCUS CAROTA* L. Apiaceae.**Carrot.**

Col. No. 14573. 'Habitch'. Market, Ahwaz. Grown locally.

**227015.** *ERAGROSTIS* sp. Poaceae.

Col. No. 14617. Fifteen miles south of Shushtar. Elevation 800 feet. Weedy grass, to 2 feet high.

**227016.** *SCANDIX PECTEN-VENERIS* L. Apiaceae.

Col. No. 14655. Thirty miles north of Andimenshk along road to Khorramabad. Diffuse, erect annual.

**227017.** *GERANIUM TRILOPHUM* Boiss. Geraniaceae.

Col. No. 14616. Fifteen miles south of Shushtar. Elevation 800 feet. Tender, diffuse herb among rocks.

**227018.** *HORDEUM VULGARE* L. Poaceae.**Barley.**

Col. No. 14694. 'Joh'. Market, Kazerun. Elevation 3,000 feet.

**227019.** *HORDEUM SPONTANEUM* C. Koch Poaceae.**Barley.**

Col. No. 14620. Fifteen miles south of Shushtar. Elevation 800 feet. Wild, on rocky slope.

**227020.** *LOLIUM* sp. Poaceae.

Col. No. 14580. Cultivated fields near Ahwaz. Weedy grass, used for forage.



**227007 to 227053—Continued**

- 227021.** *MEDICAGO ARABICA* (L.) All. Fabaceae. **Spotted burclover.**  
Col. No. 14629. Fifty miles north of Ahwaz along road to Dezful.
- 227022 to 227024.** *MEDICAGO POLYMORPHA* var. *VULGARIS* (Benth.) Shinnery **California burclover.**  
**227022.** Col. No. 14658. Thirty miles north of Andimeshk along road to Korramabad. Elevation 1,700 feet. Erect annual.  
**227023.** Col. No. 14611. Fifteen miles south of Shushtar. Elevation 800 feet. Erect to spreading annual to 6 inches high.  
**227024.** Col. No. 14612. Fifteen miles south of Shushtar. Elevation 800 feet. Erect annual.
- 227025.** *MEDICAGO MUREX* Willd. **Medic.**  
Col. No. 14633. Twenty miles north of Dezful along road to Kohrramabad. Elevation 1,200 feet. Stems about 1 foot long; flowers yellow.
- 227026 and 227027.** *MEDICAGO POLYMORPHA* var. *VULGARIS* (Benth.) Shinnery **California burclover.**  
**227026.** Col. No. 14640. Twenty miles north of Dezful along road to Khorramabad. Elevation 1,200 feet. Drought-pauperized annual, to 3 inches high.  
**227027.** Col. No. 14648. Thirty miles north of Andimeshk along road to Khorramabad. Elevation 1,700 feet. Small, prostrate annual.
- 227028 to 227030.** *MEDICAGO ORBICULARIS* (L.) All. **Buttonclover.**  
**227028.** Col. No. 14662. Thirty miles north of Andimeshk along road to Khorramabad. Elevation 1,700 feet. Annual herb in moist swale.  
**227029.** Col. No. 14729. Six miles east of Kazerun. Elevation 3,000 feet.  
**227030.** Col. No. 14740. Twenty miles east of Kazerun. Elevation 4,200 feet. Spreading, prostrate, annual, in fallow field.
- 227031.** *MEDICAGO ARABICA* (L.) All. **Spotted burclover.**  
Col. No. 14599. Twenty-five miles northeast of Ahwaz. Low spreading annual.
- 227032.** *MEDICAGO MINIMA* (L.) Grufb. **Little medic.**  
Col. No. 14646. Twenty miles north of Dezful along road to Khorramabad. Elevation 1,200 feet. Drought-pauperized annual, to 3 inches high.
- 227033.** *MEDICAGO* sp.  
Col. No. 14670. On 1,500 year old dam at Shushtar. Spreading annual.
- 227034.** *MEDICAGO POLYMORPHA* var. *VULGARIS* (Benth.) Shinnery **California burclover.**  
Col. No. 14741. Twenty miles east of Kazerun. Elevation 4,200 feet. Prostrate herb in fallow field; fruiting heavily.
- 227035.** *MELICA* sp. Poaceae.  
Col. No. 14820. Fifty miles south of Sirjan along road to Bandar-Abbas. Elevation 6,000 feet. Brittle perennial growing in rock crevices.
- 227036.** *MELILOTUS INDICA* (L.) All. Fabaceae. **Annual yellow sweetclover.**  
Col. No. 14584. Irrigated fields near Ahwaz. Erect and spreading annual; reportedly eaten by cattle.
- 227037.** *OMPHALODES* sp. Boraginaceae.  
Col. No. 14817. Twenty miles southeast of Sirjan along road to Bandar-Abbas. Elevation 5,800 feet. Small desert annual.
- 227038.** *ONOBRYCHIS VICIAEFOLIA* Scop. Fabaceae. **Sainfoin.**  
Col. No. 14753. 'Esperess'. Market, Shiraz. Elevation 5,200 feet.

**227007 to 227053—Continued****227039.** *ONOBRYCHIS* sp.

Col. No. 14614. Fifteen miles south of Shushtar. Elevation 800 feet. Erect, widely scattered annual on arid slope.

**227040.** *ONOBRYCHIS* sp.

Col. No. 14644. Twenty miles north of Dezful along road to Khorramabad. Elevation 1,200 feet. Ascending annual to 6 inches high.

**227041.** *PHASEOLUS AUREUS* Roxb. Fabaceae.**Mung bean.**

Col. No. 14564. Market, Ahwaz.

**227042.** *PHASEOLUS COCCINEUS* L.**Scarlet runner bean.**

Col. No. 14558. 'Lubia Esfahan'. Market, Ahwaz.

**227043.** *PLANTAGO* sp. Plantaginaceae.

Col. No. 14639. Twenty miles north of Dezful along road to Khorramabad. Elevation 1,200 feet. Low, stooling annual.

**227044.** *RUMEX* sp. Polygonaceae.

Col. No. 14625. Fifteen miles south of Shushtar. Elevation 800 feet. Large herb eaten by cattle.

**227045.** *SPINACIA OLERACEA* L. Chenopodiaceae.**Common spinach.**

Col. No. 14723. Market, Kazerun. Elevation 3,000 feet. Growing in lime soil.

**227046.** *TRIFOLIUM* sp. Fabaceae.

Col. No. 14664. Thirty miles north of Andimenshk along road to Khorramabad. Elevation 1,700 feet. Erect, single-stemmed annual.

**227047.** *TRIFOLIUM* sp.

Col. No. 14669. Twelve miles north of Andimenshk along road to Khorramabad. Elevation 800 feet. Colonial annual, to 5 inches high.

**227048.** *TRIGONELLA RIGIDA* Boiss. Fabaceae.

Col. No. 14592. Irrigated field near Ahwaz. Growing in hard, silty alluvium. Decumbent, spreading annual.

**227049 and 227050.** *TRIGONELLA NOEANA* Boiss.

**227049.** Col. No. 14631. Fifty miles north of Ahwaz along road to Dezful. Diffuse, low annual.

**227050.** Col. No. 14739. About 11 miles east of Kazerun. Elevation 4,200 feet. Spreading annual.

**227051.** *TRIGONELLA MONSPELIACA* L.

Col. No. 14743. About 11 miles east of Kazerun along road to Shiraz. Elevation 4,200 feet. Small, low annual with both prostrate and erect stems.

**227052.** *VICIA ERVILIA* (L.) Willd. Fabaceae.**Bitter vetch.**

Col. No. 14672. 'Qesen'. About 7 miles south of Shiraz along road to Firuzabad. Elevation 5,000 feet.

**227053.** *VICIA SATIVA* L. Fabaceae.**Common vetch.**

Col. No. 14742. About 11 miles east of Kazerun. Elevation 4,200 feet.

**227054 to 227061.** *TRITICUM AESTIVUM* L. Poaceae. **Common wheat.**

From the Union of South Africa. Seeds presented by the Winter Rainfall Area Station, Stellenbosch, Cape Province. Received July 14, 1955.

**227054.** 'Beltista'.**227058.** 'Vorentoe'.**227055.** 'Daeraad'.**227059.** 'Impala'.**227056.** 'Hoopvol'.**227060.** 'Sonop'.**227057.** 'Sterling'.**227061.** 'Spitskop R001'.

**227062 to 227112.**

From Japan. Cuttings collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 15, 1955.

**227062 and 227063.** *CAMELLIA JAPONICA* L. Theaceae. **Common camellia.**

**227062.** 'Seihi'. Rokuji-Kai, Archi Prefecture.

**227063.** 'Bon-Shirotama'. Rokuji-Kai, Archi Prefecture.

**227064.** *CAMELLIA SASANQUA* Thunb. **Sasanqua camellia.**

'Kanjiro'. Rokuji-Kai, Archi Prefecture.

**227065.** *CAMELLIA RETICULATA* Lindl. **Netvein camellia.**

'Wabisuke'. Rokuji-Kai, Archi Prefecture.

**227066 to 227112.** *RHODODENDRON* (hybrids). Ericaceae.

**227066.** 'Ai-Koku'.

**227090.** 'Kin-No-Sai'.

**227067.** 'Ama-Gasa'.

**227091.** 'Ko-Zan'.

**227068.** 'Baiy-Ko'.

**227092.** 'Kotubuki'.

**227069.** 'Banga-Ku'.

**227093.** 'Kozannishiki' (Rokuji-Kai).

**227070.** 'Banga-Yu' (Rokuji Kai).

**227094.** 'Kusu-Dama'.

**227071.** 'Banjyo No Homare'.

**227095.** 'Matu-Mami'.

**227072.** 'Ban-Jo-No-Tuki'.

**227096.** 'Rei-Getu'.

**227073.** 'Ban-Ka'.

**227097.** 'Sei-Dai' (Rokuji-Kai).

**227074.** 'Ban-O'.

**227098.** 'Sei-Ko-No-Tuki'.

**227075.** 'Chi-Kyu-Nisiki'.

**227099.** 'Shin-Ki-Gen'.

**227076.** 'Cho-Ju-No-Iwai'.

**227100.** 'Shoshyi-No-Hana'.

**227077.** 'Chukyo-No-Haru'  
(Rokuji Kai).

**227101.** 'Sin-Nyo-No-Hikari'.

**227078.** 'Dai-Shu-Kai'.

**227102.** 'Sin-Nyo-No-Tuki'.

**227079.** 'Eikan' (Roku Kai).

**227103.** 'So-Ko'.

**227080.** 'Getu-Toku'.

**227104.** 'Tai-Fuku' (Rokuji-Kai).

**227081.** 'Gyo-Ku-Shino'  
(Rokuji Kai).

**227105.** 'Tai-Hei'.

**227106.** 'Tai-Kan' (Rokuji-Kai).

**227082.** 'Gyo-Ten'.

**227107.** 'Tama-Hata'.

**227083.** 'Hei-Wa'.

**227108.** 'Tanima-No-Yuki'.

**227084.** 'Hi-Gasa'.

**227109.** 'Tatu-Mi-No-Hikari'.

**227085.** 'Issho-No-Haru'.

**227110.** 'Ten-Kai' (Rokuji-Kai).

**227086.** 'Ka-Ho' (Rokuji-Kai).

**227111.** 'Tochi-No-Hikari' (Rokuji-Kai).

**227087.** 'K-Getu'.

**227112.** 'Wa-Ko' (Rokuji-Kai).

**227088.** 'Kan-Ki' (Rokuji-Kai).

**227089.** 'Ki-Ko-Shi'.

**227113 and 227114.**

From Greece. Seeds presented by the Hellenic Agricultural Research Station, Larissa. Received July 15, 1955.

**227113.** *MELILOTUS ITALICA* (L.) Lam. Fabaceae.

**Sweetclover.**

**227114.** *MELILOTUS SULCATA* Desf.

**Sweetclover.**

Originally from Rabat, Morocco.



**227115. PHASEOLUS VULGARIS L. Fabaceae. Common bean.**

From Australia. Seeds presented by the Department of Agriculture, Sydney, New South Wales. Received July 15, 1955.

'Westralia'.

**227116. DAUCUS CAROTA L. Apiaceae. Carrot.**

From New Zealand. Seeds presented by the Department of Scientific and Industrial Research, Lincoln. Received July 15, 1955.

'Sweetcrop'.

**227117 and 227118. LATHYRUS SYLVESTRIS L. Fabaceae. Flat peavine.**

From the Netherlands. Seeds presented by the Institute voor de Veredeling van Tuinbouwgewassen, Wageningen. Received July 18, 1955.

227117. Originally from the Botanic Garden, Munich, Germany.

227118. Originally from the Botanic Garden, Cologne, Germany.

**227119 to 227133.**

From Japan. Plants and tubers collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 18, 1955.

Collected July 11 and 12, 1955.

**227119. PIERIS NANA (Maxim.) Makino Ericaceae. Kamchatka pieris.**

Col. No. 212. Mount Asama, Karuizawa. Elevation 1,400 meters. Prostrate shrub; flowers white, in short terminal racemes.

**227120. CASSIOPE LYCOPODIODES (Pall.) D. Don Ericaceae. Alaska cassiope.**

Col. No. 217. Mount Asama, Karuizawa. Prostrate shrub growing in deep cleft in rocks.

**227121 and 227122. DIOSCOREA NIPPONICA Makino Dioscoreaceae. Yam.**

227121. Col. No. 206. 'Uchiwa Dokoro'. Hoshino Karuizawa, Nagan Prefecture. Tuber horizontal, snakelike, up to 30 cm. long.

227122. Col. No. 209. 'Uchiwa Dokoro'. Hoshino, Karuizawa. Growing in semishade.

**227123. DIOSCOREA TOKORO Makino Yam.**

Col. No. 220. Hoshino, Karuizawa. Mountain trail in semishade.

**227124. EMPETRUM NIGRUM var. JAPONICUM K. Koch Empetraceae.**

Col. No. 214. Mount Asama, Karuizawa. Elevation 1,400 meters; among lava-flow rocks.

**227125. GAULTHERIA MIQUELIANA Takeda Ericaceae. Miquel wintergreen.**

Col. No. 215. Mount Asama, Karuizawa. Elevation 1,400 meters; among lava-flow rocks. Shrub low; flowers and fruits white.

**227126. LATHYRUS DAVIDII Hance Fabaceae. Peavine.**

Col. No. 208. Scandent perennial vine; racemes orange-yellow; flowers in early July.

**227127. LOISELEURIA PROCUMBENS (L.) Desv. Ericaceae. Alpine-azalea.**

Col. No. 213. Mount Asama, Karuizawa. Elevation 1,400 meters. Flowers deep pink.

**227128. MENZIESIA CILICALYX Maxim. Ericaceae.**

Col. No. 221. Mount Asama, Karuizawa. Elevation 1,400 meters. Small deciduous shrub; flowers yellowish.



**227119 to 227133—Continued**

**227129.** *PHYLLODOCE NIPPONICA* Makino Ericaceae. **Nippon mountainheath.**

Col. No. 211. Mount Asama, Karuizawa. Elevation 1,400 meters. Small shrub; flowers white, campanulate.

**227130.** *RHODODENDRON TSCHONOSKII* Maxim. Ericaceae. **Tschonoskii azalea.**

Col. No. 219. Mount Asama, Karuizawa. Elevation 1,400 meters. Growing in full sun. Prostrate, rock-covering species; flowers small, white.

**227131.** *SHORTIA SOLDANELLOIDES* (Sieb. & Zucc.) Makino Diapensiaceae.

Col. No. 210. Mount Asama Karuizawa. Elevation 1,400 meters; among lava-flow rocks. Plant small; flowers pink to red.

**227132.** *TRIPETALEIA BRACTEATA* Maxim. Ericaceae.

Col. No. 216. Mount Asama, Karuizawa. Elevation 1,400 meters. Deciduous shrub; flowers pink.

**227133.** *VACCINIUM ULIGINOSUM* L. Vacciniaceae. **Bog bilberry.**

Col. No. 218. 'Alpinum'. Mount Asama, Karuizawa. Elevation 1,400 meters. A dwarf form with leaves much smaller than normal; flowers pink.

**227134 and 227135.**

From Kenya. Seeds collected by J. L. Stephens, Agricultural Explorer. Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 18, 1955.

**227134.** *ERYTHRINA ABYSSINICA* Lam. Fabaceae. **Coral tree.**

Col. No. 347. Bell Nurseries, Nairobi. May 3, 1955. Native tree about 40 feet high.

**227135.** *VIGNA VEXILLATA* (L.) A. Rich. Fabaceae. **Cowpea.**

Col. No. 316. K52245. Kitale Station, Nairobi. April 29, 1955.

**227136 to 227153.**

From Iran. Collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 19, 1955.

Unless otherwise noted, material collected consists of roots and bulbs.

**227136 to 227148.** Collected in limestone mountain south of Dastana, and Shahr Kord. July 10, 1955.

**227136.** *AGROPYRON* sp. Poaceae.

Col. No. 15218. Leafy perennial common on high slopes; culms to 2 feet high. Elevation 10,500 feet.

**227137.** *AGROPYRON* sp.

Col. No. 15219. Elevation 10,000 feet. Slender, leafy perennial.

**227138.** *AGROPYRON* sp.

Col. No. 15221. Elevation 9,500 feet. Tall coarse perennial; culms to 3 feet high.

**227139.** *AGROPYRON* sp.

Col. No. 15222. Elevation 10,000 feet. Widespread, browsed perennial.

**227140.** *AGROPYRON* sp.

Col. No. 15227. Elevation 9,500 feet. Perennial on steep slope.

**227141.** *FESTUCA* sp. Poaceae.

Col. No. 15230. Elevation 9,500 feet. Tufted perennial.

**227136 to 227153—Continued****227136 to 227148—Continued****227142.** *ORYZOPSIS* sp. Poaceae.

Col. No. 15223. Elevation 9,500 feet. Slender, tender, leafy perennial.

**227143.** *ORYZOPSIS* sp.

Col. No. 15225. Elevation 10,000 feet. Tender leafy perennial, about 1 foot high.

**227144.** *VICIA* sp. Fabaceae.

Col. No. 15224. 'Kharehcoreh'. Elevation 10,000 feet. Vigorous bushy perennial to 2 feet high, deep-rooted and apparently stoloniferous; flowers magenta.

**227145.** (Undetermined.) Poaceae.

Col. No. 15220. Thin-leaved perennial grass; eaten by sheep.

**227146.** (Undetermined.) Poaceae.

Col. No. 15226. Elevation 9,500 feet. Small, leafy perennial grass.

**227147.** (Undetermined.) Poaceae.

Col. No. 15228. Elevation 9,500 feet. Perennial grass.

**227148.** (Undetermined.) Poaceae.

Col. No. 15229. Elevation 9,500 feet. Steep rocky slope. Tufted perennial grass.

**227149.** (Undetermined.) Poaceae.

Col. No. 15245. Elevation 6,700 feet. Dastana. July 12, 1955. Succulent, leafy grass; adventive in garden.

**227150.** *CORYLUS* sp. Betulaceae.

Col. No. 14880. Market, Esfahan. May 25, 1955. Elevation 5,300 feet. (Seeds.)

**227151.** *CROCUS SATIVUS* L. Iridaceae.**Saffron.**

Col. No. 15072. Estavanat, Fars. June 23, 1955. Elevation 5,900 feet. Cultivated by flood irrigation; bulbs multiply by twos; flowers harvested for condiment.

**227152.** *PRUNUS ARMENIACA* L. Amygdalaceae.**Apricot.**

Col. No. 14881. Market, Esfahan. May 25, 1955. Elevation 5,300 feet. Fruits pale yellow, good size. (Seeds.)

**227153.** *PRUNUS PERSICA* (L.) Batsch**Peach.**

Col. No. 14879. 'Hulu'. Market, Esfahan. May 25, 1955. Elevation 5,300 feet. Mixed local varieties; small seeds are from an early variety; large seeds are from a later variety. (Seeds.)

**227154 to 227157.**

From Panama. Seeds obtained by Bernice G. Schubert, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 20, 1955.

**227154.** *ORMOSIA* sp. Fabaceae.

Col. No. 1. Collected by L. R. Holdridge, Bayano R., May 5, 1955.

**227155.** *ORMOSIA* sp.

Col. No. 2. Collected in Chiriqui Province.

**227156.** *ORMOSIA* sp.

Col. No. 4. Collected by Ciro de la Victoria, Panama City, May 5, 1955.

**227154 to 227157—Continued**

**227157.** *ORMOSIA* sp.

Col. No. 602. Collected north of old entrance to Corozal Cemetery, Canal Zone, May 19, 1955. Tree to 35 feet high.

**227158 to 227161.**

From Korea. Seeds presented by the Central Agricultural Experiment Station, Suwon. Received July 20, 1955.

**227158 to 227160.** *GLYCINE MAX* (L.) Merr. Fabaceae.

**Soybean.**

**227158.** 'Changtan' (white).

**227159.** 'Chungbuk' (white).

**227160.** 'Kumgang' (large grain).

**227161.** *LESPEDEZA STRIATA* (Thunb.) Hook. & Arn. Fabaceae.

**227162.** (Undetermined).

From Ethiopia. Seeds collected by J. L. Stephens, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 20, 1955.

Col. No. 379. Market, Addis Ababa. May 17, 1955. Said to be a vermifuge.

**227163.** *CLITORIA TERNATEA* L. Fabaceae.

**Asian pigeonwings.**

From the Anglo-Egyptian Sudan. Seeds presented by the Sudan Gezira Board, Barakat. Received July 20, 1955.

**227164 to 227188.**

From Japan. Plants and bulbs collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 21, 1955.

Collected July 14 to 16, 1955.

**227164.** *AUCUBA JAPONICA* var. *BOREALIS* Miyabe & Kudo Cornaceae.

**Japanese aucuba.**

Col. No. 222. 'Hime-aoki'. Tsuchiyu-koge, Fukushima Prefecture. Elevation 1,400 meters. Evergreen shrub; leaves ovate, prominent teeth on margins.

**227165.** *CHIOGENES JAPONICA* A. Gray Ericaceae.

**Pearlberry.**

Col. No. 239. 'Harigane Kazura'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters. Low prostrate plant with pale greenish-white flowers.

**227166.** *DIOSCOREA JAPONICA* Thunb. Dioscoreaceae.

**Yam.**

Col. No. 247. 'Yamano-imo'. Near Nuruyu, Fukushima. Elevation 800 meters. Vine with cordate leaves which have purple edges. Tuber is vertical.

**227167.** *EMPETRUM NIGRUM* var. *JAPONICUM* K. Koch Empetraceae.

Col. No. 238. 'Gankoran'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters. Low prostrate shrub; leaves small, linear.

**227168.** *EPIGAEA ASIATICA* Maxim. Ericaceae.

**Asiatic trailing-arbutus.**

Col. No. 232. 'Iwa-nashi'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters. Prostrate evergreen shrub; leaves larger than *E. repens*; flowers pink, tubular, May.

**227169.** *GAULTHERIA ADENOTHRIX* (Miq.) Maxim. Ericaceae.

Col. No. 240. 'Iwahaze'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters. Small evergreen shrub; stems red; leaves ovate; flowers white; calyx red.

## 227164 to 227188—Continued

227170. GAULTHERIA MIQUELIANA Takeda

Miquel wintergreen.

Col. No. 235. 'Shiratamanoki'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters. Plant low; leaves crowded; flowers and fruits white.

227171. HYDRANGEA SERRATA f. ACUMINATA (Sieb. & Zucc.) Wils.  
Hydrangeaceae.

Col. No. 248. 'Sawa-gaku'. Near Nuruyu, Fukushima. Form with blue sterile rim florets.

227172 and 227173. ILEX CRENATA Thunb. Aquifoliaceae. Japanese holly.

227172. Col. No. 227. 'Inu-tsuge'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters. Form with unusually large leaves, suggesting intermediate between *I. crenata* and *I. sugerokii*.

227173. Col. No. 228. 'Inu-tsuge'. Elevation 1,600 meters. Typical form.

227174. ILEX LEUCOCLADA Makino

Holly.

Col. No. 231. 'Himemochi'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters.

227175. ILEX RUGOSA Fr. Schmidt

Holly.

Col. No. 230. 'Tsuru-tsuge'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters. A prostrate species; branches long; leaves trailing, very coriaceous.

227176 and 227177. ILEX SUGEROKII Maxim.

Sugeroki holly.

From subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters.

227176. Col. No. 229. 'Akamitsuge'. Species similar to *I. crenata* but of taller and compact habit; leaves larger; fruits red.

227177. Col. No. 233. 'Akamino-Inutsuge'. Form with unusually narrow leaves.

227178. LEDUM PALUSTRE L. Ericaceae.

Crystaltea ledum.

Col. No. 237. 'Iso-tsutsuji'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters. Growing in open meadow. Low, ever-green shrub; leaves narrow with white tomentum beneath; flowers pure white. Received as var. *nipponicum*, an apparently unpublished name.

227179. LILIUM AURATUM Lindl. Liliaceae.

Goldband lily.

Col. No. 246. 'Yama-yuri'. Near Nuruyu, Fukushima. Elevation 800 meters. Growing to 1 meter high; flowers large, white with yellow band on each petal and red-spotted glands.

227180. LILIUM LEICHTLINII var. MAXIMOWICZII (Regel) Baker

Col. No. 225. 'Ko-oniyuri'. Tsuchiyu-koge, Fukushima Prefecture. Elevation 1,400 meters. Small seedling growing on sunny slope, similar in flower to *L. tigrinum*, but smaller, red.

227181. MENZIESIA PETANDRA Maxim. Ericaceae.

Col. No. 241. 'Ko-yorakutsutsuji'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters. Deciduous shrubs; flowers urceolate, reddish-brown.

227182. VACCINIUM OXYCOCCOS L. Vacciniaceae.

Small cranberry.

Col. No. 236. 'Tsuru-kokemomo'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters. Prostrate woody plant; flowers pale-pink.



**227164 to 227188—Continued**

**227183.** *RHODODENDRON ALBRECHTII* Maxim. Ericaceae. **Albrecht azalea.**

Col. No. 226. 'Murasaki Yashio Tsutsuji'. Tsuchiya-koge, Fukushima Prefecture. Elevation 1,400 meters. Growing under *Sasa* plantings. Typical form.

**227184.** *RHODODENDRON JAPONICUM* (Gray) Schneid. **Japanese azalea.**

Col. No. 249. 'Renge-tsutsuji'. Near Nuruyu, Fukushima Prefecture. Elevation 800 meters. Deciduous shrub; yellowish-orange flowers in May.

**227185 and 227186.** *RHODODENDRON OBTUSUM* var. *KAEMPFERI* (Planch.) Wils. **Torch azalea.**

**227185.** Col. No. 223. 'Yama-tsutsuji'. Teuchiyo-koge, Fukushima Prefecture. Elevation 1,400 meters. Growing under *Sasa* plantings. Typical form.

**227186.** Col. No. 250. 'Yama-tsutsuji'. Near Nuruyu, Fukushima Prefecture. Elevation 800 meters. Growing in open sunny meadow.

**227187.** *RHODODENDRON SEMIBARBATUM* Maxim. **Autumn leaf azalea.**

Col. No. 224. 'Barkatusutsuji'. Tsuchiyu-koge, Fukushima Prefecture. Elevation 1,400 meters. Growing under *Sasa* plantings. Deciduous shrub; flowers to 25 mm. across, solitary, white with purple spots.

**227188.** *SPIRAEA BETULIFOLIA* Pallas. Rosaceae. **Birchleaf spirea.**

Col. No. 234. 'Maruba-shimatsuke'. Subalpine zone between Makugawa Onsen and Toriko-duira. Elevation 1,600 meters. Plant low, dense; flowers white, in umbels, July.

**227189 to 227192.**

From Japan. Seeds collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 22, 1955.

**227189.** *CITRUS* (hybrid). Rutaceae.

Col. No. 66. 'Hyuga Natsudaidai'. Okitsu. June 6, 1955. A summer orange, possibly between *C. junos* and an unknown. Single-embryo type; skin thin; flavor good; matures in May and June; yield low.

**227190.** *ILEX SUGEROKII* Maxim. Aquifoliaceae. **Sugeroki holly.**

Col. No. 245. 'Akocmi-tsuge'. Open subalpine meadow of Adsuma Mountains. July 15, 1955. Elevation 1,600 meters. Evergreen species similar to *I. crenata* tall with larger leaves than *I. crenata*; fruits red.

**227191.** *PRUNUS NIPPONICA* Mats. Amygdalaceae. **Takana flowering cherry.**

Col. No. 242. 'Mime-zakura'. Subalpine zone between Makugawa Onsen and Toriko-duira. July 15, 1955. Dwarf alpine species; bark shiny black; fruits large, black.

**227192.** *VACCINIUM OVALIFOLIUM* Smith. Vacciniaceae. **Oval leaf whortleberry.**

Col. No. 243. 'Kuro-usugo'. Subalpine zone between Makugawa Onsen and Toriko-duira. July 15, 1955. Elevation 1,600 meters.

**227193.** *PASPALUM* sp. Poaceae.

From Brazil. Seed presented by Paulo Nogueira Neto, Sao Paulo. Received July 22, 1955.

**227194 to 227201.** *TRITICUM AESTIVUM* L. Poaceae. **Common wheat.**

From the Union of South Africa. Seed presented by the Director, Elsenbury, Agricultural College, Stellenbosch, Cape Province. Received July 22, 1955.

**227194 to 227201—Continued**

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|-------------------------------|----------------------------|
| <b>227194.</b> 'Drome Daris'. | <b>227198.</b> 'Kruger'.   |
| <b>227195.</b> 'Duiker'.      | <b>227199.</b> 'Penkop'    |
| <b>227196.</b> 'Farrartron'.  | <b>227200.</b> 'Unie 52'.  |
| <b>227197.</b> 'Koaliesie'.   | <b>227201.</b> 'Spitskop'. |

**227202 to 227231.**

From Japan. Seed collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 25, 1955.

Collected June 8 to 11, 1955.

**227202 to 227206.** CITRULLUS VULGARIS Schrad. Cucurbitaceae. **Watermelon.**

**227202.** Col. No. 70. 'Shin-yamato No. 2'. Shizuoka. Fruit with black rind; matures 110-120 days from planting.

**227203.** Col. No. 71. 'Asahi-yamato'. Shizuoka. Fruit with green rind, of medium size; matures in 120-140 days.

**227204.** Col. No. 76. 'Otume'. Aichi Horticultural Field Station, Kiyosu-cho, Aichi Prefecture. Fruits round, small, forcing type; 25 days from flower to maturity; rind rich green, not striped.

**227205.** Col. No. 77. 'Shin-yamato'. Aichi Horticultural Field Station, Kiyosu-cho, Aichi Prefecture. Fruits with black striped rind; medium size.

**227206.** Col. No. 78. 'Asahi-yamato'. Aichi Horticultural Field Station, Kiyosu-cho, Aichi Prefecture. Fruits large but otherwise similar to 'Otume'. Considered best quality.

**227207 to 227210.** CUCUMIS SATIVUS L. Cucurbitaceae.**Cucumber.**

Purchased at market in Shizuoka.

**227207.** Col. No. 72. 'Suyo'. Late variety, matures in 75 days. Originally a Chinese variety.

**227208.** Col. No. 73. 'Yomaki-asahi Aonaga'. Similar to No. 72; said to have originated in China.

**227209.** Col. No. 74. 'Sagami-hangiro'. Forcing type; fruits spiny, of medium length.

**227210.** Col. No. 75. 'Aibai'. A vigorous creeping type, planted in June and matures in August.

**227211.** ELAEAGNUS MULTIFLORA Thunb. Elaeagnaceae.

Col. No. 140. Shrub to 4 feet high, leaves silvery beneath. Fruit red, oblong with unusually pleasant flavor.

**227212 to 227225.** GLYCINE MAX (L.) Merr. Fabaceae.**Soybean.**

**227212.** Col. No. 68. 'Fuji No. 4'. Shizuoka. Matures in October. Vegetable type.

**227213.** Col. No. 69. 'Sode-furi'. Shizuoka. Matures in early October. Vegetable type.

**227214.** Col. No. 87. 'Oku-name'. Nagoya local garden. Matures in October. Vegetable type.

**227215 to 227225.** Collected at the Prefecture Office Farm, Kyoto.

**227215.** Col. No. 91. 'Norin No. 1'.

**227216.** Col. No. 92. 'Norin No. 2'.

**227217.** Col. No. 93. 'Norin No. 3'.

**227218.** Col. No. 94. 'Natsudaizu No. 1'.

**227202 to 227231—Continued****227212 to 227225—Continued****227215 to 227225—Continued**

227219. Col. No. 95. 'Kotane'.  
 227220. Col. No. 96. 'Shirodaizu'.  
 227221. Col. No. 97. 'I. Yodaizu'.  
 227222. Col. No. 98. 'Ippon Suzunari'.  
 227223. Col. No. 99. 'Akazaya'.  
 227224. Col. No. 100. 'Ya Hazi'.  
 227225. Col. No. 101. 'Tama Nishiki'.

227226. *LONICERA* sp. Caprifoliaceae.

Col. No. 207. Hoshina, Nagano. Shrub to 6 feet high; leaves opposite, ovate, appearing in July; fruits, red.

227227. *MAHONIA JAPONICA* (Thunb.) DC. Berberidaceae. **Japanese mahonia.**

Col. No. 80. Higashima Botanical Garden, Nagoya.

227228. *LYONIA OVALIFOLIA* var. *ELLIPTICA* (Sieb. & Zucc.) Hand.-Mazz.

Ericaceae.

**Thinleaf lyonia.**

Col. No. 89. Growing wild in evergreen forest near Kyoto. Deciduous tree to 15 feet high; flowers white, in pendent racemes.

227229. *RHODODENDRON FAURIAE* Franch. Ericaceae.

Col. No. 224. 'Hakusan-shakunage'. Tall-growing, in open meadow; flowers white to pink with yellow blotch.

227230. *SPINACIA OLERACEA* L. Chenopodiaceae.

**Spinach.**

Col. No. 79. 'Jiromaru'. Aichi Horticultural Field Station, Kiyosu-cho, Aichi Prefecture. A hybrid Japanese-European type; leaves medium flat.

227231. *VACCINIUM HIRTUM* Thunb. Vacciniaceae.

Col. No. 88. Collected at Kyoto growing in temple garden. Shrub upright, probably evergreen; fruits large, bright red, oblong.

**227232 to 227258.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 26, 1955.

Collected in May and June, 1955 unless otherwise noted.

227232. *BRASSICA OLERACEA* var. *CAPITATA* L. Brassicaceae.

**Cabbage.**

Col. No. 15069. Market, Estavanat, Fars. Elevation 5,900 feet. Leafy type.

227233. *BRASSICA RAPA* L.

**Turnip.**

Col. No. 14853. Market Esfahan. Elevation 5,300 feet.

227234. *CUCUMIS MELO* L. Cucurbitaceae.

**Muskmelon.**

Col. No. 14851. Esfahan. Fruits large, oblong, famous.

227235 and 227236. *CUCUMIS SATIVUS* L.

**Cucumber.**

227235. Col. No. 14866. 'Khlar'. Market, Esfahan. Elevation 5,300 feet.

Small-fruited, mild-flavored variety; cultivated on saline soils by irrigation.

227236. Col. No. 14867. 'Khlar'. Market, Esfahan. Elevation 5,300 feet.

Large-fruited variety; cultivated on slightly saline soil.

227237. *CUCURBITA PEPO* L. Cucurbitaceae.

**Pumpkin.**

Col. No. 14868. Market, Esfahan. Elevation 5,300 feet. Color greenish; cooked as a vegetable.



**227232 to 227258—Continued****227238.** *EPHEDRA* sp. Gnetaceae.

Col. No. 15053. About six miles east of Sarvestan, Fars. Elevation 5,000 feet. Bushy, ornamental, to 4 feet high; foliage green to purple; berries red.

**227239.** *HORDEUM BULBOSUM* L. Poaceae.**Barley.**

Col. No. 14687. Eight miles northwest of Kazerun. Elevation 3,000 feet. Tall, caespitose annual; to 4 feet high.

**227240 and 227241.** *HORDEUM VULGARE* L.**Barley.**

**227240.** Col. No. 14915 'Jo'. Chadegan, Faridan District. Elevation 7,200 feet. Short spring type; irrigated.

**227241.** Col. No. 14919. Fields of Esfahan. Elevation 5,300 feet. Irrigated type; stems strong, to 3 feet high; freely stooling.

**227242.** *HORDEUM* sp.

Col. No. 14951. Badgka, about 8 miles northeast of Shiraz. Elevation 5,000 feet. Bushy annual, to 10 inches high.

**227243.** *IMPERATA* sp. Poaceae.

Col. No. 14579. Cultivated near Ahwaz. Apr. 25, 1955. Eaten by cattle.

**227244.** *ONOBRYCHIS* sp. Fabaceae.

Col. No. 14939. Badgka. About 8 miles northeast of Shiraz. Elevation 5,000 feet. Spreading perennial

**227245.** *PANICUM MILIACEUM* L. Poaceae.**Proso millet.**

Col. No. 14927. 'Arzan'. Market, Esfahan. Cultivated for bird seed and stock feed.

**227246.** *PAPAVER SOMNIFERUM* L. Papaveraceae.**Opium poppy.**

Col. No. 14862. 'Khash-Khash'. Market, Esfahan. Elevation 5,300 feet.

**227247 and 227248.** *PHASEOLUS AUREUS* Roxb. Fabaceae.**Mung bean.**

**227247.** Col. No. 14929. 'Mush'. Market, Esfahan. Elevation 5,300 feet.

**227248.** Col. No. 15954. 'Mush'. Fasa, Fars. Elevation 4,700 feet.

**227249.** *PRUNUS AVIUM* L. Amygdalaceae.**Sweet cherry.**

Col. No. 14878. 'Gilas'. Market, Esfahan. Elevation 5,300 feet. Soil slightly saline, alluvial.

**227250 and 227251.** *RAPHANUS SATIVUS* L. Brassicaceae.**Radish.**

**227250.** Col. No. 14854. Market, Esfahan. Elevation 5,300 feet.

**227251.** Col. No. 14855. 'Turoptcheh'. Market, Esfahan. Elevation 5,300 feet. Small red type.

**227252.** *RHEUM OFFICINALE* Baill. Polygonaceae.**Rhubarb.**

Col. No. 14873. 'Rivas'. Market, Esfahan. Elevation 5,300 feet. Poor quality type; locally cultivated.

**227253.** *SESAMUM INDICUM* L. Pedaliaceae.**Sesame.**

Col. No. 14876. 'Konjet'. Market, Esfahan. Elevation 5,300 feet.

**227254.** *SOLANUM MELONGENA* L. Solanaceae.**Eggplant.**

Col. No. 14858. 'Badenjan'. Market, Esfahan. Elevation 5,300 feet. Long purple-fruited type.

**227255.** *TRIFOLIUM REPENS* L. Fabaceae.**Whiteclover.**

Col. No. 14921. 'Shabdar'. Fields of Esfahan. Elevation 5,300 feet.

**227256.** *TRIFOLIUM RESUPINATUM* L.**Persian clover.**

Col. No. 14875. 'Shabdar'. Market, Esfahan. Elevation 5,300 feet.



**227232 to 227258—Continued**

**227257.** *ASTRAGALUS CORRUGATUS* Bert. Fabaceae. **Milkvetch.**

Col. No. 14917. Fields of Esfahan. Elevation 5,300 feet. Procumbent annual, reported acceptable to sheep.

**227258.** *PISUM ELATIUS* Stev. Fabaceae. **Mediterranean pea.**

Col. No. 14918. Fields of Esfahan. Elevation 5,300 feet.

**227259.** *ZOYSIA JAPONICA* Steud. Poaceae. **Japanese lawngrass.**

From Japan. Collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 25, 1955.

Col. No. 251. 'Shiba'. Near Nuruyu, Fukushima. July 16, 1955. Elevation 800 meters.

**227260 to 227286.**

From Japan. Plants and bulbs collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 27, 1955.

Collected at Tengu-dake, Yatsugutake Range, Japan. July 20, 1955. Elevation 2,200 meters.

**227260.** *ABIES MARIESII* Masters Pinaceae. **Maries fir.**

Col. No. 258. Tree to 50 meters high; bark ashy-white with purplish tinge; branchlets dense dark-brown hairs; leaves linear, curved outwards; cones dark purple.

**227261.** *ABIES VEITCHII* Lindl. **Veitch fir.**

Col. No. 257. 'Shira Biso'. Bark yellowish white; branchlets with pale-brown hairs; cones greenish.

**227262 and 227263.** *ACER TSCHONOSKII* Maxim. Aceraceae. **Maple.**

**227262.** Col. No. 265. 'Mine-kaede'. Small tree, leaf stalks red. Flowers greenish yellow, few, in racemes.

**227263.** Col. No. 266. Similar to No. 265, but leaves with white margins.

**227264.** *ACER CAUDATUM* var. *UKURUNDUENSE* (Trautv. & Mey.) Rehder **Maple.**

Col. No. 267. 'Ogara-bana'. Small subalpine tree; flowers numerous, dioecious, in racemes.

**227265.** *ARCTOSTAPHYLOS ALPINA* var. *JAPONICA* Hultén. Ericaceae.

Col. No. 273. 'Urashima-tsutsuji'. Prostrate deciduous shrub; leaves spiny, turning deep red in fall; flowers appear before leaves, pale yellow, urceolate; fruits black.

**227266.** *DIOSCOREA* sp. Dioscoreaceae.

Col. No. 277. Between Shibu Noyu and Chino. Elevation 1,500 meters. Tubers snakelike, horizontal.

**227267.** *EUONYMUS TRICARPA* Koidz. Celastraceae.

Col. No. 268. 'Murasaki-tsuribana'. Large deciduous shrub; flowers dark purple.

**227268.** *HYDRANGEA PANICULATA* Sieb. Hydrangeaceae. **Panicle hydrangea.**

Col. No. 275. Between Shibu Noyu and Chino. Elevation 1,500 meters. A good pink form.

**227269.** *ILEX RUGOSA* Fr. Schmidt. Aquifoliaceae. **Holly.**

Col. No. 260. Growing in conifer forest. Prostrate evergreen; fruit red.

**227270.** *LILIUM MEDEOLOIDES* Gray. Liliaceae. **Wheel lily.**

Col. No. 274. Subalpine meadow. Small species, usually with one or two red flowers.

## 227260 to 227286—Continued

227271. *LONICERA CHAMISSOI* Bunge Caprifoliaceae.**Honeysuckle.**

Col. No. 254. 'Kuro Bana Hyotanboku'. Above Shibu Noyu and Chino. Elevation 1,900 meters. Alpine species; flowers deep purple; fruits red.

227272. *LONICERA* sp.

Col. No. 256. Above Shibu Noyu and Chino. Elevation 1,900 meters. Dwarf, about 25 cm. high; leaves small.

227273. *PRUNUS NIPPONICA* Mats. Amygdalaceae. **Takana flowering cherry.**

Col. No. 263. 'Mime-zakura'. Small shrubby tree; bark shiny black, flowers 3 to a bud; fruits black. Similar to *P. incisa*, but larger.

227274. *PYROLA ALPINA* H. Andres. Pyrolaceae.

Col. No. 272. 'Kobano-ichiyakuso'. Small species with broad, oval leaves; flowers greenish white.

227275. *PYROLA RENIFOLIA* Maxim. **Kidneyleaf pyrola.**

Col. No. 271. 'Jinyo-ichiyakuso'. Large species; leaves kidney shaped with pale-white markings on veins; flowers white.

227276. *PYROLA SECUNDA* L.**Sidebells pyrola.**

Col. No. 270. 'Ko-ichiyakuso'. Small species; leaves ovate; flowers greenish white; petals almost tubular.

227277 and 227278 *RHODODENDRON JAPONICUM* (Gray) Schneid. Ericaceae.**Japanese azalea.**

227277. Col. No. 252. 'Renge-tsutsuji'. Above Shibu Noyu, Nagano Prefecture. Elevation 1,800 meters. Flowers brick red with orange blotch.

227278. Col. No. 253. 'Range-tsutsuji'. Above Shibu Noyu, Nagano Prefecture. Elevation 1,800 meters. Flowers bright red without blotch.

227279. *RHODODENDRON OBTUSUM* var. *KAEMPFERI* (Planch.). Wils.**Torch azalea.**

Col. No. 276. Between Shibu Noyu and Chino. Elevation 1,500 meters.

227280. *RUBUS IKANOENSIS* Levl. & Vant. Rosaceae.

Col. No. 262. 'Goyo-ichigo'. Plant prostrate; flowers white.

227281. *RUBUS PEDATUS* Sm.

Col. No. 261. 'Kogane-ichigo'. Shrub prostrate; flowers white.

227282. *SORBUS SAMBUCIFOLIA* (Cham. & Schl.) Roem. Malaceae.**Siberian mountain-ash.**

Col. No. 269. 'Takane-nanakamodo'. Alpine region. Small shrub; leaflets shiny, subcoriaceous; fruits reddish yellow when ripe.

227283. *VACCINIUM YATABEI* Makino. Vacciniaceae.**Blueberry.**

Col. No. 259. 'Aojiko-sunoki'. Deciduous shrub about 30 cm. high; flowers in early June; berries dark red, flavorless.

227284 and 227285. *VIBURNUM URCEOLATUM* Sieb. & Zucc. Caprifoliaceae.**Vaseflower viburnum.**

227284. Col. No. 255. 'Miyama Shibure'. Above Shibu Noyu, Nagano Prefecture. Prostrate species; buds pink; flowers white, in late July.

227285. Col. No. 264. Similar to No. 255, but with much larger leaves.

227286. *PRUNUS NIPPONICA* Mats. Amygdalaceae. **Takana flowering cherry.**

Col. No. 263. Tengu-dake, Yatsugutake Range. Elevation 2,200 meters.

## 227287 to 227289.

From the Union of South Africa. Seeds presented by the National Botanic Gardens, Kirstenbosch, Newlands, Cape Province. Received July 23, 1955.

**227287 to 227289—Continued**

**227287.** *EKEBERGIA CAPENSIS* Sparrm. Meliaceae.

Col. No. 247.

**227288.** *LACHNOPYLIS FLORIBUNDA* (Benth.) C. A. Smith Loganiaceae.

Col. No. 251.

**227289.** *VIRGILIA OROBOIDES* (Berg.) Salter Fabaceae.

Col. No. 258.

**227290 to 227310.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received July 28, 1955.

Collected April and May, 1955

**227290.** *AEGILOPS TRIARISTATA* Willd. Poaceae.

**Goatgrass.**

Col. No. 14600. Twenty-five miles northeast of Ahwaz. Small, desert annual.

**227291.** *AEGILOPS TRUNCIALIS* L.

**Barb goatgrass.**

Col. No. 14604 Abe-e-Gonji, halfway between Ahwaz and Shushtar.

**227292.** *AEGILOPS TRIARISTATA* Willd.

**Goatgrass.**

Col. No. 14628. Fifty miles north of Ahwaz. Low stooling annual, to 6 inches high.

**227293.** *ALLIUM CEPA* L. Liliaceae.

**Onion.**

Col. No. 14666. Thirty miles north of Andimenshk, along the road to Khorramabad. Elevation 1,700 feet.

**227294.** *AVENA* sp. Poaceae.

Col. No. 14668. Twelve miles north of Andimenshk, along the road to Khorramabad. Elevation 800 feet. Small, drought-resistant spontaneous grass.

**227295.** *AVENA* sp.

Col. No. 14831. About 71 miles south of Sirjan, along the road to Bandar-Abbas. Elevation 5,300 feet. Annual to 2 feet high; early seeding.

**227296.** *BRASSICA RAPA* L. Brassicaceae.

**Turnip.**

Col. No. 14567. 'Shelgham'. Market, Ahwaz. Cultivated locally.

**227297.** *BROMUS TECTORUM* L. Poaceae.

**Cheatgrass.**

Col. No. 14676. About 25 miles south of Shiraz, along road to Firuzabad. Elevation 5,000 feet. Early-seeding spring annual.

**227298 and 227299.** *CUCURBITA PEPO* L. Cucurbitaceae.

**Pumpkin.**

**227298.** Col. No. 14699. Market, Kazerun. Elevation 3,000 feet.

**227299.** Col. No. 14781. Market, Kerman. Elevation 5,800 feet.

**227300.** *HORDEUM* sp. Poaceae.

Col. No. 14581. Irrigated fields near Ahwaz. Annual pasture grass.

**227301.** *HORDEUM SPONTANEUM* C. Koch.

**Barley.**

Col. No. 14622. Fifteen to 18 miles south of Shushtar. Elevation 800 feet. Plant to 3 feet high.

**227302.** *HORDEUM* sp.

Col. No. 14636. Twenty miles north of Dezful along road to Khorramabad. Elevation 1,200 feet. Annual with long head and heavy awns.

**227303.** *LINUM USITATISSIMUM* L. Linaceae.

**Flax.**

Col. No. 14691. 'Bazrak'. Market, Kazerun. Elevation 3,000 feet. Grown locally for oil.



**227290 to 227310—Continued**

**227304.** *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. **Tomato.**

Col. No. 14692. Market, Kazerun. Elevation 3,000 feet. Fruit small, round.

**227305.** *PHASEOLUS VULGARIS* L. Fabaceae. **Common bean.**

Col. No. 11750. Market, Shiraz. Elevation 5,200 feet. Cultivated locally, seed round, red flecked.

**227306 and 227307.** *RAPHANUS SATIVUS* L. Brassicaceae. **Radish.**

**227306.** Col. No. 14565. Market, Ahwaz. Local, red type.

**227307.** Col. No. 14795. Market, Kerman. Elevation 5,800 feet.

**227308.** *VICIA ERVILLA* (L.) Willd. Fabaceae. **Bitter vetch.**

Col. No. 14654. Thirty miles north of Andimeshk along road to Khorramabad. Elevation 1,700 feet. Annual, stems to 2 feet long, in moist bottomland.

**227309.** *VICIA MONANTHA* Retz. **Bard vetch.**

Col. No. 14582. Irrigated fields near Ahwaz. Scandent annual.

**227310.** *VIGNA SINENSIS* (Torner) Savi Fabaceae. **Common cowpea.**

Col. No. 14552. Ahwaz.

**227311 to 227313.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 1 1955.

Collected June 30, 1955.

**227311.** *CITRUS* sp. Rutaceae.

Col. No. 15149. 'Portajal'. Market, Shiraz. Elevation 5,200 feet. Sour orange.

**227312.** *CITRUS* sp.

Col. No. 15150. 'Narange'. Market, Shiraz. Elevation 5,200 feet. Sour orange used for juice.

**227313.** *CITRUS* sp.

Col. No. 15151. 'Limetosh'. Market, Shiraz. Elevation 5,200 feet. Small-fruited lemon.

**227314.** *PISTACIA MUTICA* Fisch. & Mey. Anacardiaceae.

**Terebinth.**

From Iran. Seeds obtained by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 1, 1955.

Collected by W. Bembower, south of Kerman. Tree said to be 500 years old. (Wild.)

**227315 to 227319.** *LOTUS CORNICULATUS* L. Fabaceae.

**Birdsfoot trefoil.**

From France. Seeds presented by the Station Centrale d'Amelioration des Plantes, Versailles (Seine-et-Oise). Received Aug. 2, 1955.

**227315.** No. 6-10. 'Haute-Vienne'. **227318.** No. 3445. 'Gers'.

**227316.** No. 26-30. 'Ile-de-France'. **227319.** No. 3647. 'Indra'.

**227317.** No. 3159. 'Loir-et-Cher'.

**227320 to 227334.** *GLYCINE MAX* (L.) Merr. Fabaceae. **Soybean.**

From Japan. Seeds obtained by John L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 3, 1955.

From the Agricultural Experiment Station, Kotoni, Sapporo, Hokkaido.



**227320 to 227334—Continued**

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|---------------------------|-------------------------------|
| 227320. 'Daiichihienuki'. | 227328. 'Manchikin'.          |
| 227321. 'Fukuzyu'.        | 227329. 'Mansokin'.           |
| 227322. 'Genpokin'.       | 227330. 'Murasakibana No. 1'. |
| 227323. 'Kairyo No. 1'.   | 227331. 'Murasakibana No. 4'. |
| 227324. 'Kingen No. 1'.   | 227332. 'Oba-tsurumame'.      |
| 227325. 'Kingen No. 2'.   | 227333. 'Ohozyu'.             |
| 227326. 'Kokuiku No. 44'. | 227334. 'Syokino No. 1'.      |
| 227327. 'Kokuso'.         |                               |

**227335. AMORPHOPHALLUS ONCOPHYLLUS Prain. Araceae.**

From Indonesia. Tubers and seeds presented by International Cooperation Administration, General Agricultural Research Station, Bogor. Received Aug. 3, 1955.

**227336 and 227337. GOSSYPIUM (hybrids). Malvaceae. Cotton.**

From Guam. Seeds presented by the Director of Agriculture, Agara. Received Aug. 4, 1955.

227336. C. B. 3003. Collected on the Island of Guam.  
 227337. C. B. 3004. Collected on the Island of Saipan.

**227338 to 227400.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 4, 1955.

Collected April, May, and June, 1955.

**227338. HETERANTHELIUM PILIFERUM (Russ.) Jaub. & Spach. Poaceae**

Col. No. 14941. Badgka, 8 miles northeast of Shiraz. Elevation 5,000 feet. Very short-tufted annual.

**227339. AEGILOPS OVATA L. Poaceae. Goatgrass.**

Col. No. 14944. Badgka, 8 miles northeast of Shiraz. Elevation 5,000 feet. Xerophytic annual; eaten by sheep.

**227340. AEGILOPS HELDRICHII (Boiss.) Holzm. Goatgrass.**

Col. No. 14945. Badgka, 8 miles northeast of Shiraz. Elevation 5,000 feet. Xerophytic annual; culms erect to 8 inches high.

**227341. HETERANTHELIUM PILIFERUM (Russ.) Jaub. & Spach. Poaceae.**

Col. No. 14946. Badgka, 8 miles northeast of Shiraz. Elevation 5,000 feet. Low spreading, bushy annual, to 6 inches high.

**227342. AEGILOPS CRASSA Boiss. Goatgrass.**

Col. No. 14948. Badgka, 8 miles northeast of Shiraz. Elevation 5,000 feet. Leafy bunch perennial.

**227343. AGROPYRON sp. Poaceae.**

Col. No. 14883. Two miles south of Esfahan on open desert. Elevation 5,500 feet. Xerophytic annual; growing with less than 1 inch of spring rain..

**227344 and 227345. AGROPYRON BUONAPARTIS (Spreng.) Dur. & Schinz Wheatgrass.**

227344. Col. No. 14940. Badgka, 8 miles northeast of Shiraz. Elevation 5,000 feet. Low, spreading annual.

227345. Col. No. 15003. Fifteen miles east of Sa'adatabad, Fars. Elevation 6,000 feet. Annual herb.

**227346. ALLIUM CEPA L. Liliaceae. Onion.**

Col. No. 14857. 'Piaz'. Market, Esfahan. Elevation 5,300 feet.

**227338 to 227400—Continued****227347.** *ALLIUM PORRUM* L.**Leek.**

Col. No. 14856. 'Tareh'. Market, Esfahan. Elevation 5,300 feet.

**227348.** *ANDROPOGON* sp. Poaceae.

Col. No. 14999. Forty-six miles west of Abadeh in Goshkyee country. Elevation 7,800 feet. Perennial.

**227349.** *ANDROPOGON* sp.

Col. No. 15051. Eight miles west of Shiraz, Fars. Elevation 6,000 feet. Cespitose perennial to 12 inches high.

**227350.** *ASTRAGALUS* sp. Fabaceae.

Col. No. 14947. Badgka, 8 miles northeast of Shiraz. Elevation 5,000 feet. Low, thorny, bushy perennial; rather ornamental.

**227351.** *ASTRAGALUS HAMOSUS* L.

Col. No. 14950. Badgka, 8 miles northeast of Shiraz. Elevation 5,000 feet. Prostrate desert annual on newly irrigated land. Eaten by cattle.

**227352.** *ASTRAGALUS* sp.

Col. No. 15033-A. About twenty miles east of Kazerun, Fars. Elevation 3,500 feet. Annual herb growing on dry slope.

**227353.** *AVENA* sp. Poaceae.

Col. No. 14920. Fields of Esfahan. Elevation 5,300 feet.

**227354.** *BRASSICA RAPA* L. Brassicaceae.**Turnip.**

Col. No. 14852. Market, Esfahan. Elevation 5,300 feet.

**227355.** *BROMUS DANTHONIAE* Trin. Poaceae.**Brome.**

Col. No. 14938. Badgka 8 miles northeast of Shiraz. Elevation 5,000 feet. Spreading but erect annual, to 8 inches high; eaten by sheep.

**227356.** *BROMUS TECTORUM* L.**Cheatgrass.**

Col. No. 14949. Badgka, 8 miles northeast of Shiraz. Elevation 5,000 feet. Annual, to 10 inches high.

**227357.** *BROMUS TOMENTELLUS* Boiss.**Brome.**

Col. No. 15004. Thirteen miles east of Sa'adatabad, Fars. Elevation 6,000 feet. Xerophytic perennial with leafy crown to 6 inches high. Regarded as good feed for all animals.

**227358.** *CANNABIS SATIVA* L. Moraceae.**Hemp.**

Col. No. 14934. 'Shadaneh'. Market, Esfahan. Elevation 5,300 feet.

**227359.** *CICER ARIETINUM* L. Fabaceae.**Chickpea.**

From Esfahan. No field note.

**227360.** *CICHORIUM ENDIVIA* L. Cichoriaceae.**Endive.**

Col. No. 14872. Market, Esfahan. Elevation 5,300 feet. Both leaves and roots used medicinally.

**227361.** *CUCURBITA MAXIMA* Duchesne Cucurbitaceae.**Squash.**

Col. No. 14869. Market, Esfahan. Elevation 5,300 feet.

**227362.** *FESTUCA* sp. Poaceae.

Col. No. 15037. Mountain pass above Dasht Arjan, Fars. Elevation 7,000 feet. Short-leaved perennial, browsed by sheep and goats.

**227363.** *HIPPOCREPIS UNISILIQUOSA* L. Fabaceae.

Col. No. 14615. Fifteen to 18 miles south of Shushtar. Elevation 800 feet. Delicate annual herb.

**227338 to 227400—Continued****227364.** *HORDEUM VULGARE* L. Poaceae.**Barley.**

Col. No. 15065. Market, Estavanat, Fars. Elevation 5,900 feet. Cultivated locally by irrigation.

**227365.** *IPOMOEA NIL* (L.) Roth. Convolvulaceae.

Col. No. 14712. 'Nulufa'. Market, Kazerun. Elevation 3,000 feet. Seeds used in local medicine.

**227366.** *LACTUCA SATIVA* L. Cichoriaceae.**Garden lettuce.**

Col. No. 14861. 'Kahoo'. Market, Esfahan. Elevation 5,300 feet. Leafy type; flood irrigated.

**227367 to 227369.** *MEDICAGO POLYMORPHA* var. *VULGARIS* (Benth.) Shinnars  
Fabaceae. **California burclover.****227367.** Col. No. 14660. Thirty miles north of Andimenshk along the road to Khorramabad. Elevation 1,700 feet.**227368.** Col. No. 14663. Thirty miles north of Andimenshk along the road to Khorramabad. Elevation 1,700 feet. Erect colonial annual.**227369.** Col. No. 14683. Cultivated field near Kazerun. Elevation 3,000 feet. Annual.**227370.** *MEDICAGO SATIVA* L. Fabaceae.**Alfalfa.**

Col. No. 14928. 'Yunje'. Market, Esfahan. Elevation 5,300 feet.

**227371.** *MEDICAGO* sp.

Col. No. 14632. Fifty miles north of Ahwaz along road to Dezful. A diffuse, erect, drought-inhibited annual; to 5 inches high.

**227372.** *MEDICAGO ARABICA* (L.) All.**Spotted burclover.**

Col. No. 14731. Twelve miles east of Kazerun. Elevation 3,800 feet. Small erect colonial annual.

**227373.** *ONOBRYCHIS VICIAEFOLIA* Scop. Fabaceae.**Sainfoin.**

Col. No. 14912. 'Medifuruhi'. Chadegan, Faridan District. Elevation 7,200 feet.

**227374.** *ONOBRYCHIS* sp.

Col. No. 14607. Abe-e-Gonji, halfway between Ahwaz and Shushtar. Small decumbent annual.

**227375.** *ONOBRYCHIS* sp.

Col. No. 14619. Fifteen to 20 miles south of Shushtar. Elevation 500 feet. Drought-inhibited annual.

**227376.** *ONOBRYCHIS* sp.

Col. No. 14649. Thirty miles north of Andimenshk along road to Khorramabad. Elevation 1,700 feet. Plant erect but spreading.

**227377.** *ONOBRYCHIS* sp.

Col. No. 14884. Two miles south of Esfahan. Small procumbent herb.

**227378.** *PHALARIS MINOR* Retz. Poaceae.**Littleseed canarygrass.**

Col. No. 14887. Esfahan. Elevation 5,300 feet. Tall, leafy grass.

**227379.** *PHASEOLUS VULGARIS* L. Fabaceae.**Common bean.**

Col. No. 14930. 'Lubia'. Market, Esfahan. Elevation 5,300 feet. A stringless stringbean cultivated on somewhat saline alluvial soils; good quality.

**227380.** *PLANTAGO* sp. Plantaginaceae.

Col. No. 14587. Irrigated fields near Ahwaz.



**227338 to 227400—Continued****227381.** *POA* sp. Poaceae.

Col. No. 14923. Fields of Esfahan. Elevation 5,300 feet. Hydrophytic grass along irrigation ditch.

**227382.** *RAPHANUS SATIVUS* L. Brassicaceae.**Radish.**

Col. No. 15060. 'Torop'. Market, Estavanat, Fars. Elevation 5,900 feet. Locally cultivated.

**227383.** *SPINACIA OLERACEA* L. Chenopodiaceae.**Spinach.**

Col. No. 14860. 'Espinacia'. Market, Esfahan. Elevation 5,300 feet.

**227384.** *STIPA* sp. Poaceae.

Col. No. 14983. Seventeen miles northwest of Abadeh, Fars. Elevation 7,400 feet. Low turf-forming xerophytic perennial; good desert forage.

**227385.** *STIPA* sp.

Col. No. 15007. Twenty-two miles south of Dehbid, along road from Abadeh to Shiraz. Elevation 7,000 feet. Widespread, xerophytic perennial; much relished by cattle.

**227386 to 227388.** *TRIFOLIUM RESUPINATUM* L. Fabaceae.**Persian clover.****227386.** Col. No. 14596. Irrigated fields near Ahwaz. Diffuse annual.**227387.** Col. No. 14914. Chadegan, Faridan District. Elevation 7,200 feet. Erect annual to 2 feet high.**227388.** Col. No. 14925. 'Shabdar'. Market, Esfahan. Elevation 5,300 feet.**227389.** *TRIFOLIUM* sp.

Col. No. 14598. Irrigated fields near Ahwaz. Small erect annual.

**227390.** *TRIFOLIUM ANGUSTIFOLIUM* L.**Clover.**

Col. No. 14637. Twenty miles north of Dezful along road to Khorramabad. Elevation 1,200 feet. Erect, single-stemmed annual to 8 inches high.

**227391.** *TRIFOLIUM RESUPINATUM* L.**Persian clover.**

Col. No. 14913. Chadegan, Faridan District. Elevation 7,200 feet. Irrigated perennial; for pasture and hay.

**227392.** *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae.**Fenugreek.**

Col. No. 14874. 'Shanbileleh'. Market, Esfahan. Elevation 5,300 feet. Used as a table green and to feed cattle.

**227393.** *TRIGONELLA MONSPELIACA* L.

Col. No. 14657. Thirty miles north of Andimeshk along road to Khorramabad. Elevation 1,700 feet. Low spreading annual; browsed.

**227394.** *TRIGONELLA ANGUINA* Del.

Col. No. 14671. Between Ahwaz and Abadan. Prostrate annual browsed by livestock.

**227395.** *TRIGONELLA POLYCERATA* L.

Col. No. 14937. Badgka, about 8 miles northeast of Shiraz. Elevation 5,000 feet. Small, erect, and spreading annual; browsed by sheep.

**227396 and 227397.** *VIGNA SINENSIS* (Torner) Savi Fabaceae. **Common cowpea.****227396.** Col. No. 14931. 'Lubia'. Market, Esfahan. Elevation 5,300 feet.**227397.** Col. No. 15055. 'Lubia'. Market, Fasa, Fars. Elevation 4,700 feet.**227398.** *ZEA MAYS* L. Poaceae.**Corn.**

Col. No. 14932. 'Zorat'. Market, Esfahan. Elevation 5,300 feet.



**227338 to 227400—Continued**

**227399.** (Undetermined.) Fabaceae.

Col. No. 14804. Khor'. Silt flats around Kerman. Elevation 5,800 feet. Short-lived perennial; fed dry to sheep and goats.

**227400.** (Undetermined.) Menthaceae.

Col. No. 14863. Market, Esfahan. Elevation 5,300 feet. Cultivated by irrigation.

**227401 and 227402.** *PRUNUS PERSICA* (L.) Batsch Amygdalaceae.

**Peach.**

From the Union of South Africa. Plants presented by Herholdt's Nurseries, Johannesburg, Transvaal. Received Aug. 5, 1955.

**227401.** 'Herholdt's Unicum' (15).

**227402.** 'Kakamas'.

**227403.** *CITRUS HYSTRIX* DC. Rutaceae.

**Cabuyas.**

From Morocco. Seeds presented by the Institut des Fruits et Agrumes Coloniaux, Rabat. Received Aug. 5, 1955.

**227404.** *AECHMEA MARIAE-REGINAE* Wendl. Bromeliaceae.

From Costa Rica. Seeds presented by C. H. Lankester, Cartago. Received Aug. 9, 1955.

**227405.** *STYLOSANTHES FRUTICOSA* (Retz.) Mohlenb. Fabaceae.

From Australia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received Aug. 5, 1955.

Originally from Tanganyika, British East Africa.

**227406 to 227417.**

From Japan. Collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 8, 1955.

Plants collected July 30 and 31, 1955, unless otherwise noted.

**227406.** *ABIES SACHALINENSIS* (Schmidt) Masters Pinaceae.

**Sakhalin fir.**

Col. No. 298 'Todo-matsu'. Kawayu Forestry Nursery, Kushiro Province, Hokkaido.

**227407.** *BETULA PLATPHYLLA* Sukaczew. Betulaceae.

**Asian white birch.**

Col. No. 292. 'Shira-kaba'. Foot of Mount Iwo, Kushiro Province, Hokkaido.

**227408.** *HYDRANGAEA PANICULATA* var. *INTERMEDIA* H. Bois ex Nakai Hydrangeaceae.

**Panicle hydrangea.**

Col. No. 289. 'Agisai-nori-utsugi'. Bihoro Pass, Kushiro Province, Hokkaido. Elevation 500 meters.

**227409.** *ILEX RUGOSA* Fr. Schmidt Aquifoliaceae.

**Holly.**

Col. No. 295. 'Tauru-tsuge'. Kawayu, Kushiro Province, Hokkaido.

**227410.** *LEDUM PALUSTRE* var. *YESOENSE* Nakai Ericaceae.

**Yesonense.**

Col. No. 291. 'Yezu-isu-tsutsuji'. Foot of Mount Iwo, Kushiro Province, Hokkaido. Variety characterized by brownish and white hairs on underside of leaves.

**227411.** *PICEA GLEHNII* (Schmidt) Masters Pinaceae.

**Sakhalin spruce.**

Col. No. 297. 'Aka-yedzu-matsu'. Kawayu Forestry Nursery, Kushiro Province, Hokkaido.

**227406 to 227417—Continued**

**227412.** *PICEA JEZOENSIS* (Sieb. & Zucc.) Carr. **Yeddo Spruce.**

Col. No. 296. 'Yedzu-matsu'. Kawayu Forestry Nursery, Kushiro Province, Hokkaido.

**227413.** *PINUS PUMILA* Regel Pinaceae. **Japanese stone pine.**

Col. No. 293. 'Hai-matsu'. At foot of Mount Iwo, Kushiro Province, Hokkaido. Shrubby species, 5-needle type.

**227414.** *RUBUS PSEUDO-JAPONICUS* Koidz. Rosaceae.

Col. No. 299. 'Hime-goyo-ichingo'. On mountain near Lake Mashu, Kushiro Province. A prostrate species, 5-leaved; fruits small, very sweet, ripening in late July.

**227415.** *SPIRAEA BETULIFOLIA* var. *AEMILIANA* Koidz. Rosaceae. **Birchleaf spirea.**

Col. No. 288. 'Yezo-maruba Shimotsuke'. Bihoro Pass, Kushiro Province, Hokkaido. Elevation 500 meters. Small shrub; leaves small, ovate to round-cuneate; flowers white.

**227416.** *CLINTONIA UDENSIS* Trautv. & Mey. Convallariaceae.

Col. No. 290. 'Tsubame-omoto'. In dense shade, Bihoro Pass, Kushiro Province, Hokkaido. Elevation 500 meters. Leaves basal; flowers white, early June; fruits blue.

**227417.** *EMPETRUM NIGRUM* L. Empetraceae. **Black crowberry.**

Col. No. 294. 'Gankoran'. Foot of Mount Iwo, Kushiro Province, Hokkaido.

**227418.** *MELILOTUS MESSANENSIS* (L.) All. Fabaceae. **Sweetclover.**

From Portugal. Seeds presented by the Direcção Geral, dos Serviços Agrícolas, Lisbon. Received Aug. 8, 1955.

**227419 to 227422.**

From France. Budwood presented by Llugany Jacque & Fils, Elne. Received Aug. 8, 1955.

**227419 and 227420.** *PRUNUS ARMENIACA* L. Amygdalaceae. **Apricot.**

**227419.** 'Bulida'.

**227420.** 'Tardif'.

**227421.** *PRUNUS PERSICA* (L.) Batsch. **Peach.**

'Madeleine Pouijet'.

**227422.** *PYRUS COMMUNIS* L. Malaceae. **Pear.**

'Docteur Guyot'.

**227423 to 227433.**

From Japan. Collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 9, 1955.

Collected July 29 and 30, 1955.

**227423.** *ACHILLEA PULCHRA* Koidz. Asteraceae.

Col. No. 281. 'Hingashi Mokota'. Along seacoast, Hamakoshi, Kitami, Hokkaido. Deep-pink flowers. (Plants.)

**227424.** *HYPERICUM ASCYRON* L. Hypericiaceae.

Col. No. 279. 'Tomoe-so'. Masu-ura, Abashiri City, Kitami Province, Hokkaido. (Plants.)

**227423 to 227433—Continued**

**227425.** *LILIUM DAURICUM* Ker. Liliaceae. **Candlestick lily.**

Col. No. 283. 'Yezo-sukashiyuri'. Hamakoshi-mizu, Kitami Province. In sand dunes. (Bulbs.)

**227426.** *LILIUM LEICHTLINII* var. *MAXIMOWICZII* (Regel) Baker **Lily.**

Col. No. 284. 'Ko-oni-yuri'. Abashiri City, Kitami, Hokkaido. Plants to 4 feet high, with large orange pendent flowers. (Bulblets.)

**227427.** *LILIUM MEDEOLOIDES* var. *KURILENSE* Nakai **Wheel lily.**

Col. No. 278. 'Hosoba-kurumauri'. Masu-ura, Abashiri City, Kitami Province, Hokkaido. Form with narrow leaves and flower segments. (Bulbs.)

**227428.** *MALUS BACCATA* (L.) Moench. Malaceae. **Siberian crabapple.**

Col. No. 282. 'Edzono koringo'. Forest of Aokigahara. Typical form, growing in dense shade of mixed trees. (Cuttings.)

**227429.** *PRUNUS MAXIMOWICZII* Rupr. Amygdalaceae. **Miyama cherry.**

Col. No. 286. 'Shiro-zakura'. Onneyu, near Rubeshibe, Kitami Province. Free to 25 feet high. Flowers white, small, in corymbs. (Seeds.)

**227430.** *RHODODENDRON DAURICUM* L. Ericaceae.

Col. No. 285. 'Yezo-murasaki-tsutsuji'. Onneyu, near Rubeshibe, Kitami Province. Typical form. (Plants.)

**227431 and 227432.** *ROSA RUGOSA* Thunb. Rosaceae. **Rose.**

Col. No. 280. 'Hamanasu'. Along ocean front, Hamakoshi, Kitami, Hokkaido.

**227431.** Seeds.

**227432.** Plants.

**227433.** *SCHISANDRA CHINENSIS* (Turcz.) Baill. Magnoliaceae. **Chinese magnoliavine.**

Col. No. 287. 'Cho-sen-gomishi'. Onneyu, near Rubeshibe, Kitami Province. Creeping vine; flowers white; fruits red. Medicinal use. (Plants.)

**227434 to 227474.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 9, 1955.

Collected in June, 1955.

**227434.** *AEGILOPS CRASSA* Boiss. Poaceae. **Goatgrass.**

Col. No. 14952. Takht-e Jamshid. Elevation 5,500 feet. Stems leafy, to 12 inches high.

**227435.** *AEGILOPS TRIARISTATA* Willd. **Goatgrass**

Col. No. 14953. Takht-e Jamshid. Elevation 5,500 feet. Annual, stooling.

**227436.** *AEGILOPS OVATA* L.

Col. No. 15016. Thirteen miles west of Shiraz. Elevation 6,000 feet. Common annual.

**227437.** *AEGILOPS TRIUNCIALIS* L.

Col. No. 15038. Mountain pass above Dasht Arjan, Fars. Elevation 7,000 feet. Slender annual, 1.5 feet high.

**227434 to 227474—Continued****227438.** *ALLIUM CEPA* L. Liliaceae.**Onion.**

Col. No. 15064. 'Pios'. Market, Estavanat, Fars. Elevation 6,900 feet. Strong-flavored; common in the state of Fars.

**227439.** *ASTRAGALUS* sp. Fabaceae.

Col. No. 14956. Fields of Takht-e Jamshid. Elevation 5,500 feet. Annual leafy herb.

**227440.** *ASTRAGALUS HAMOSUS* L.**Milkvetch.**

Col. No. 14958. 'Kelemaleck'. Fields of Takht-e Jamshid. Elevation 5,500 feet. Small, spreading annual; used as a physic.

**227441.** *ASTRAGALUS CORRUGATUS* Bert.**Milkvetch.**

Col. No. 15011. Fields of Takht-e Jamshid. Elevation 5,000 feet. Prostrate, annual herb; eaten by sheep.

**227442.** *ASTRAGALUS* sp.

Col. No. 15081. Nine miles west of Shiraz. Elevation 6,000 feet. Annual lotuslike herb.

**227443.** *ASTRAGALUS* sp.

Col. No. 15083. Fifteen miles west of Shiraz. Elevation 6,000 feet. An erect unarmed perennial; stems rather succulent; browsed by animals.

**227444.** *ASTRAGALUS* sp.

Col. No. 15108. Kowkun Valley, Fars. Elevation 7,500 feet. Annual herb; browsed by animals.

**227445.** *AVENA* sp. Poaceae.

Col. No. 15023. Dasht Arjan, Fars. Elevation 6,600 feet.

**227446.** *FESTUCA ARUNDINACEA* Schreb. Poaceae.**Tall fescue.**

Col. No. 15089. Homaijan near Ardakan, Fars. Elevation 7,000 feet. Rank, rather tough-leaved perennial grass.

**227447.** *CICORIUM ENDIVIA* L. Cichoriaceae.**Endive.**

Col. No. 15068. 'Kasni'. Market, Estavanat, Fars. Elevation 5,900 feet.

**227448 and 227449.** *HORDEUM VULGARE* L. Poaceae.**Barley.**

**227448.** Col. No. 14955. 'Jo'. Fields of Takht-e Jamshid. Elevation 5,500 feet. Two-rowed; to 20 inches high.

**227449.** Col. No. 14961. 'Jo'. Fields near Sa-adatabad, Shiraz. Elevation 6,000 feet. Short, two-rowed.

**227450.** *LATHYRUS SATIVUS* L. Fabaceae.**Flatpod peavine.**

Col. No. 14974. 'Gavdaneh'. Bavanat Valley, Fars. Elevation 7,000 feet. Foliage dried for hay; seeds fed to cattle in winter.

**227451 and 227452.** *MEDICAGO LUPULINA* L. Fabaceae.**Black medic.**

**227451.** Col. No. 15041. Dasht Arjan, Fars. Elevation 6,600 feet.

**227452.** Col. No. 15123. Kowkun Valley, Fars. Elevation 7,500 feet.

**227453.** *ORYZOPSIS* sp. Poaceae.

Col. No. 14989. Thirteen to 16 miles northwest of Abadeh, Fars. Elevation 7,400 feet. Black-seeded perennial grass; well liked by animals.

**227454.** *ORYZOPSIS* sp.

Col. No. 14997. Seventeen miles southwest of Abadeh, Fars. Elevation 8,500 feet. Perennial grass, to 3 feet high; good xerophytic forage.

**227455.** *ORYZOPSIS* sp.

Col. No. 15057. Estavanat, Fars. Elevation 7,000 feet. Perennial grass to 4 feet high.



## 227434 to 227474—Continued

227456. *ORYZOPSIS* sp.

Col. No. 15134. Between Ardakan and Komehr, Fars. Elevation 9,000 feet. Xerophytic perennial grass.

227457. *PISUM SATIVUM* L. Fabaceae.

Garden pea.

Col. No. 15114. 'Sangakh'. Kowkun Valley, Fars. Elevation 7,500 feet.

227458. *PLANTAGO* sp. Plantaginaceae.

Col. No. 15088. Homaijan, near Ardakan, Fars. Elevation 7,000 feet. Perennial herb.

227459 and 227460. *POA BULBOSA* L. Poaceae.

Bulbous bluegrass.

227459. Col. No. 15005. Sar Paniran Valley, Fars. Elevation 6,500 feet. Perennial tufted grass.

227460. Col. No. 15133. Komehr Valley, Fars. Elevation 7,500 feet. Leafy, tufted perennial.

227461. *POA PRATENSIS* L.

Kentucky bluegrass.

Col. No. 14967. Eleven miles east of Dehbid, Fars. Elevation 8,000 feet. Perennial forming a low turf.

227462. *POA* sp.

Col. No. 14978. Limestone slope by Bavanat Valley, Fars. Elevation 7,500 feet. Perennial herb.

227463. *POA PRATENSIS* L.

Kentucky bluegrass.

Col. No. 15026. Dasht Arjan, Fars. Elevation 6,600 feet. Perennial; heavily grazed.

227464. *PRUNUS* sp. Amygdalaceae.

Col. No. 15077. 'Arjan'. Five miles east of Sarvestan, Fars. Elevation 6,000 feet. Upright shrub.

227465. *STIPA* sp. Poaceae.

Col. No. 15014. Thirteen miles west of Shiraz. Elevation 6,000 feet. Perennial, grows to 4 feet high.

227466. *STIPA* sp.

Col. No. 15015. Thirteen miles west of Shiraz. Elevation 6,000 feet. Xerophytic perennial forming leafy tufts; browsed by sheep.

227467. *STIPA* sp.

Col. No. 15024. Dasht Arjan, Fars. Elevation 6,600 feet. Tufted perennial, on limestone cliff.

227468. *STIPA* sp.

Col. No. 15058. Estavanat, Fars. Xerophytic perennial; browsed by burros.

227469. *TRIFOLIUM RESUPINATUM* L. Fabaceae.

Persian clover.

Col. No. 14975. Bavanat Valley, Fars. Elevation 7,500 feet.

227470. *TRITICUM* sp. Poaceae.

Col. No. 14954. Fields of Takht-e Jamshid. Elevation 5,500 feet.

227471. *VICIA ERVILLA* (L.) Willd. Fabaceae.

Bitter vetch.

Col. No. 15118. 'Pilehmushi'. Kowkun Valley, Fars. Elevation 7,500 feet.

227472. *VICIA SATIVA* L.

Common vetch.

Col. No. 15012. Ten miles west of Shiraz. Elevation 6,000 feet.

227473. *VICIA ANGUSTIFOLIA* var. *SEGETALIS* (Thuill.) Koch

Vetch.

Col. No. 15040. Dasht Arjan, Fars. Elevation 6,600 feet. Annual spreading herb.

**227434 to 227474—Continued**

**227474.** *LATHYRUS INCONSPICUUS* L. Fabaceae. **Peavine.**

Col. No. 15113. Kowkun Valley, Fars. Elevation 7,500 feet. Erect annual, growing to 10 inches high.

**227475 to 227479.**

From Costa Rica. Seeds presented by Gordon B. Killinger, Servicio Tecnico Inter-Americano de Cooperacion Agricola, San Jose. Received Aug. 10, 1955.

**227475.** *CALOPOGONIUM MUCUNOIDES* Desv. Fabaceae.

**227476.** *DESMODIUM BARBATUM* (L.) Benth. Fabaceae. **Tickclover.**

**227477.** *DESMODIUM OVALIFOLIUM* Guill. & Perr. **Tickclover.**

**227478.** *STIZOLOBIUM PRURIENS* (Stickm.) Medic. Fabaceae. **Cowage velvetbean.**

**227479.** *STIZOLOBIUM* sp.

**227480 to 227490.**

From Japan. Plants and seeds collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 10, 1955.

**227480.** *ACTINIDIA KOLOMIKTA* (Max.) Rupr. Dilleniaceae. **Kolomikta**

Col. No. 301. Akan-ko, Kuchiro Province. Scandant vine, frequently with red, or white variegated leaves. (Plants.)

**227481.** *CHAMAEDAPHNE CALYCVLATA* (L.) Moench Eriaceae.

Col. No. 307. Near Nemuro. Subshrub with narrow obovate leaves. (Plants.)

**227482.** *DIOSCOREA* sp. Dioscoreaceae.

Col. No. 300. Akan-ko, Kuchiro Province, growing in mixed conifer-deciduous forest. Very small vine; leaves somewhat lanceolate, cordate; tubers small, either round or elongate. (Plants.)

**227483.** *HOSTA RECTIFOLIA* Nakai Liliaceae.

Col. No. 310. 'Tachigiboshi'. Near Nemuro. Flowers uniformly purple, on scape to 30 inches high. (Plants.)

**227484.** *ILEX RUGOSA* Fr. SCHMIDT. Aquifoliaceae. **Holly.**

Col. No. 306. Near Nemuro. Prostrate species with narrow ovate leaves. (Plants.)

**227485.** *IRIS KAEMPFERI* Sieb. Iridaceae. **Japanese iris.**

Col. No. 309. 'Nohanashobi'. Near Nemuro. Flowers dark purple (Plants.)

**227486.** *PINUS PUMILA* Regel. Pinaceae. **Japanese stone pine.**

Col. No. 303. Forestry Bureau Nursery, Akan, Kushiro Province, Hokkaido. Shrubby 5-needle species. (Plants.)

**227487.** *RHODODENDRON PARVIFOLIUM* Adams Ericaceae. **Tundra rhododendron.**

Col. No. 304. Sphagnum bog near Nemuro. A low-growing straggly species with small lanceolate to obovate leaves. (Plants.)

**227488.** *SASA AMPHITRICA* Koidz. Poaceae. **Bamboo.**

Col. No. 308. 'Ainu-miaka Sasa'. Near Nemuro. Characterized by pilose upper surface of leaves. (Plants.)

**227489.** *SPIRAEA BETULIFOLIA* var. *AEMILIANA* Koidz. Rosaceae. **Birchleaf spirea.**

Col. No. 305. Sphagnum bog near Nemuro. (Plants.)

**227490.** *SAMBUCUS BUERGERIANA* Blume Caprifoliaceae. **Elder.**

Col. No. 302. Along roadside at Akan, Kushiro Province, Hokkaido. Shrub to 6 feet high; fruits bright red in corymb, August. (Seeds.)

**227491.** (Undetermined.) Poaceae.

From Japan. Plants presented by Dr. H. Kondo, Institute of Breeding Research, Tokyo Agricultural University, Tokyo. Received Aug. 11, 1955. Dwarf bamboo.

**227492 to 227494.**

From Costa Rica. Rhizomes collected by B. G. Schubert, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 15, 1955.

**227492.** *DIOSCOREA CONVOLVULACEA* Cham. & Schlecht. Dioscoreaceae. **Yam.**

Col. No. 923. Coffee finca at La Suiza, beyond the Institute, Turrialba. July 27, 1955.

**227493.** *DIOSCOREA* sp.

Col. No. 921. Coffee finca at La Suiza, beyond the Institute, Turrialba. July 27, 1955.

**227494.** *DIOSCOREA CYANISTICTA* Donn.—Sm. **Yam.**

Col. No. 922. Coffee finca at La Suiza, beyond the Institute, Turrialba. July 27, 1955.

**227495 to 227497.**

From Venezuela. Seeds presented by the Ministry of Agriculture, Caracas. Received Aug. 15, 1955.

**227495.** *ORMOSIA AYLENSIS* Pittier. Fabaceae.

**227496.** *ORMOSIA MACROPHYLLA* Benth.

**227497.** *ORMOSIA TOVARENSIS* Pittier.

**227498 to 227521.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 16, 1955.

Collected April, May and June, 1955.

**227498.** *ALLIUM* sp. Liliaceae.

Col. No. 15067. 'Tarey'. Market, Estavanat, Fars. Elevation 5,900 feet. Wild and cultivated.

**227499.** *ALOPECURUS ARUNDINACEUS* Poir. Poaceae.

Col. No. 15027. Dasht Arjan, Fars. Elevation 6,600 feet. Aquatic or hydrophytic perennial; eaten sparingly by cattle.

**227500.** *MELICA ELIGULATA* Boiss. Poaceae.

Col. No. 14977. Limestone slope, Bavanat Valley, Fars. Elevation 7,500 feet. Cespitose, hairy perennial about 1 foot high.

**227501.** *BROMUS TOMENTELLUS* Boiss. Poaceae. **Brome.**

Col. No. 15017. About 13 miles west of Shiraz. Elevation 6,000 feet. Perennial about 2 feet high forming patches of turf; leaves to 6 inches long; much browsed by sheep and cattle.

**227502.** *CARTHAMUS TINCTORIUS* L. Asteraceae. **Safflower.**

Col. No. 14864. 'Kofsheh'. Market, Esfahan. Elevation 5,300 feet. Locally cultivated; seeds eaten or used for oil.

**227503.** *CEPHALARIA* sp. Dipsacaceae.

Col. No. 15136. 'Kangar'. Mountain pass 27 miles northwest of Shiraz. Elevation 7,500 feet. Coarse, spiny, annual herb; widely grown for hay.

**227504.** *CUCUMIS SATIVUS* L. Cucurbitaceae. **Cucumber.**

Col. No. 15063. Market, Estavanat, Fars. Elevation 6,900 feet. Fruits slender, about 1 foot long.

**227498 to 227521—Continued****227505.** *FESTUCA ARUNDINACEA* Schreb. Poaceae.**Tall fescue.**

Col. No. 15035. Seven miles west of Dasht Arjan, Fars. Elevation 6,000 feet. Perennial.

**227506.** *FESTUCA* sp.

Col. No. 15127. Komehr Valley, Fars. Elevation 7,500 feet. Fine, bluish-leaved perennial; dry, rocky ground.

**227507.** *FESTUCA* sp.

Col. No. 15129. Komehr Valley, Fars. Rocky field. Elevation 7,500 feet. Slender-leaved perennial; culms up to 2 feet long.

**227508.** *GLADIOLUS SEGETUM* Ker. Iridaceae.**Saunders gladiolus.**

Col. No. 14593. Irrigated fields near Ahwaz. Browsed by cattle.

**227509 and 227510.** *HORDEUM BULBOSUM* L. Poaceae.**Barley.****227509.** Col. No. 14959. Near Sa-adatabad along road from Shiraz to Abadeh. Elevation 6,000 feet. Tall perennial grass on rocky slope.**227510.** Col. No. 14960. Near Sa-adatabad, Shiraz Province. Elevation 6,000 feet. Annual weed in barley field.**227511.** *LATHYRUS CICERA* L. Fabaceae.**Flatpod peavine.**

Col. No. 15086. Homaijan, near Ardakan, Fars. Elevation 7,000 feet. Annual vinelike herb.

**227512.** *LOTUS CORNICULATUS* L. Fabaceae.**Birdsfoot trefoil.**

Col. No. 15125. Kowkun Valley, Fars. Elevation 7,500 feet. Eaten by animals.

**227513.** *POA* sp. Poaceae.

Col. No. 15132. Above Komehr Valley, Fars. Elevation 8,500 feet. Annual grass; no forage value.

**227514.** *PRUNUS CERASUS* L. Amygdalaceae.**Sour cherry.**

Col. No. 14877. 'Albain'. Market, Esfahan. Elevation 5,300 feet. Cultivated.

**227515.** *PRUNUS* sp.

Col. No. 15095. 'Yemeshan'. South ridge of Kuhe Barmeh Firuz, Fars. Elevation 10,000 feet. Fruits edible.

**227516.** *TRIFOLIUM RESUPINATUM* L. Fabaceae.**Persian clover.**

Col. No. 14924. 'Shabdar'. Market, Esfahan. Elevation 5,300 feet. Cultivated as forage.

**227517.** *TRIGONELLA MONANTHA* C. A. Mey. Fabaceae.

Col. No. 14936. 'Badgka'. Ten miles northeast of Shiraz. Elevation 5,000 feet. Decumbent, annual herb with yellow flowers; browsed by sheep.

**227518.** *LATHYRUS APHACA* L. Fabaceae.**Peavine.**

Col. No. 15085. Homaijan, near Ardakan, Fars. Elevation 7,000 feet. Annual vinelike herb.

**227519.** *VICIA ANGUSTIFOLIA* L. Fabaceae.**Narrowleaf vetch.**

Col. No. 15087. Homaijan, near Ardakan, Fars. Elevation 7,000 feet. Annual vinelike herb.

**227520.** *LATHYRUS APHACA* L.**Peavine.**

Col. No. 15110. Kowkun Valley, Fars. Elevation 7,500 feet. Yellow-flowered annual in wheat field.

**227521.** (Undetermined.) Menthaceae.

Col. No. 15006. Sar Paniran Valley, Fars. Elevation 6,500 feet. Small annual; seeds used locally in medicine.



**227522 to 227548.**

From Japan. Plants collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 16, 1955.

**227522.** *ARCTOSTAPHYLOS ALPINUS* var. *JAPONICA* Hulten. Ericaceae.

Col. No. 328. 'Urachima-tsutsutsi'. Mount Kurodake, Ishikari, Hokkaido. Prostrate shrub; flowers small, white, tinged with pink.

**227523.** *CAREX FLAVOCUSPIS* Franch & Sav. Cyperaceae.

**Sedge.**

Col. No. 323. 'Miamo-kuro-surge.' Mount Kurodake, Ishikari, Hokkaido.

**227524.** *CEPHALOTAXUS HARRINGTONIA* var. *NANA* (Nakia) Rehder Taxaceae.

Col. No. 337. 'Yezp-inu-gaya'. Among forest trees, Mopporo National Forest, Hokkaido. Procumbent, rooting readily from the stems.

**227525.** *DAPHNIPHYLLUM HUMBLE* Maxim. Euphorbiaceae.

Col. No. 335. 'Yezo-yuzuriha'. Mopporo National Forest, Hokkaido. Dwarf evergreen.

**227526.** *DIAPENSIA OBOVATA* Nakai & Koidz. Diapensiaceae.

Col. No. 313. 'Iwa-une'. Mount Kurodake, Ishikari, Hokkaido. Elevation 1,600 meters. Dwarf shrub; leaves small, in rosettes. Flowers white.

**227527.** *EMPETRUM NIGRUM* L. Empetraceae.

**Black crowberry.**

Col. No. 331. 'Gankoran'. Mount Kurodake, Ishikari, Hokkaido. Dwarf; flowers white, tinged with pink. Received as var. *asiaticum*, an apparently unpublished name.

**227528.** *FRITILLARIA CAMSCHATCENSIS* (L.) Ker. Liliaceae.

Col. No. 338. University of Hokkaido, Hokkaido.

**227529.** *GEUM PENTAPETALUM* (L.) Makino Rosaceae.

Col. No. 318. 'Chin-guruma'. Mount Kurodake, Ishikari, Hokkaido. Flowers white.

**227530.** *HYDRANGEA SERRATA* f. *ACUMINATA* (Sieb. & Zucc.) Wils. Hydrangeaceae.

Col. No. 333. 'Beni-gaku'. Botanical Garden, University of Hokkaido, Sapporo, Hokkaido. Garden form with sterile pink ray florets and reddish petioles. Originally from Manchuria.

**227531.** *ILEX CRENATA* var. *RADICANS* (Nakai) Tatewaki Aquifoliaceae.

**Japanese holly.**

Col. No. 336. 'Hai-inutsuge'. Mopporo National Forest, Hokkaido. Creeper, rooting easily from stems.

**227532.** *LEDUM PALUSTRE* L. Ericaceae.

**Crystaltea ledum.**

Col. No. 329. 'Hosoba-yezo-isu-tsutsui'. Mount Kurodake, Ishikari, Hokkaido. Leaves small, narrow; hairs dense, brown.

**227533.** *LILIUM MEDEOLOIDES* A. Gray Liliaceae.

**Wheel lily.**

Col. No. 339. 'Kuruma-yuri'. Mount Teine, Province Ishikari. Presented by J. Samejima, Hokkaido University.

**227534.** *PATRINIA SIBIRICA* Juss. Valerianaceae.

Col. No. 324. 'Takane-ominaeshi'. Mount Kurodake, Ishikari, Hokkaido. Perennial; leaves thick, pinnate; flowers bright yellow.

**227535.** *PEDICULARIS CHAMISSONIS* Stev. Scrophulariaceae.

Col. No. 319. 'Yezo-yotsuba-shiogama'. Mount Kurodake, Ishikari, Hokkaido. Perennial; flowers pink-purple, in racemes, August.

**227522 to 227548—Continued**

**227536.** *PENSTEMON FRUTESCENS* Lamb. Scrophulariaceae.

Col. No. 325. 'Tarumae-so'. Sandy places, Mount Kurodake, Ishikari, Hokkaido. Plant prostrate; flowers purple.

**227537 and 227538.** *PHYLLODOCE ALEUTICA* (Spreng.) Heller Ericaceae.  
**Aleutian mountainheath.**

**227537.** Col. No. 315. 'Ao-nutsuga zakura'. Mount Kurodake, Ishikari, Hokkaido. Elevation 1,600 meters. Prostrate shrub; flowers yellow.

**227538.** Col. No. 316. Mount Kurodake, Ishikari, Hokkaido. Elevation 1,600 meters. Flowers white.

**227539.** *PHYLLODOCE CAERTULEA* (L.) Bab. **Blue mountainheath.**

Col. No. 314. 'Eso-tsuga zakura'. Mount Kurodake, Ishikari, Hokkaido. Elevation 1,600 meters. Prostrate shrub; flowers bell shaped, pink.

**227540.** *RHODODENDRON CAMTSCHATICUM* Pall. Ericaceae.

Col. No. 312. 'Yezp-tgutsuji'. Kurodake, Ishikari, Hokkaido. Elevation 1,900 meters. Dwarf; flowers purple.

**227541.** *RHODODENDRON CHRYSANTHUM* Pall. **Goldmat rhododendron.**

Col. No. 326. 'Kibana-shakunage'. Mount Kurodake, Ishikari, Hokkaido. Flowers pale lemon-yellow.

**227542.** *SALIX PAUCIFLORA* Koidz. Salicaceae. **Willow.**

Col. No. 320. 'Yezo-no-mame-uanagi'. Mount Kurodake, Ishikari, Hokkaido. Dwarf.

**227543.** *SASA KURILENSIS* (Rupr.) Makino & Shibata Poaceae. **Bamboo.**

Col. No. 330. 'Chishima-zasa'. Mount Kurodake, Ishikari, Hokkaido.

**227544.** *SAXIFRAGA LACINIATA* Nakai & Takeda Saxifragaceae.

Col. No. 321. 'Hime-yama-hanaso'. Gravelly places, Mount Kurodake, Ishikari, Hokkaido. Small perennial; leaves lacinate; flowers white, tinged pink.

**227545.** *SYRINGA* sp. Oleaceae.

Col. No. 332. Botanical Garden, University of Hokkaido, Sapporo, Hokkaido. Originally from Manchuria. Plant to 2 meters; flowers purple.

**227546.** *VACCINIUM ULIGINOSUM* L. Vacciniaceae. **Bog bilberry.**

Col. No. 317. 'Kuro-mame-no-ki'. Mount Kurodake, Ishikari, Hokkaido. Elevation 1,600 meters. Small shrub; fruits black.

**227547.** *CAREX* sp. Cyperaceae.

Col. No. 322. 'Daisetsu-iwa-suge'. Mount Kurodake, Ishikari, Hokkaido.

**227548.** *POA* sp. Poaceae.

Col. No. 327. 'Mambu-somo-somo'. Mount Kurodake, Ishikari, Hokkaido.

**227549 and 227550.**

From Japan. Seeds collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 18, 1955.

**227549.** *CARPINUS CORDATA* Blume Betulaceae. **Heartleaf hornbeam.**

Col. No. 334. 'Sawa Shiba'. Mopporo National Forest, Hokkaido. Aug. 9, 1955.

**227550.** *VACCINIUM AXILLARE* Nakai Vacciniaceae.

Col. No. 311. 'Kuro-usugo'. Mount Kurodake, Ishikari, Hokkaido. Aug. 5, 1955. Elevation 1,600 meters.

**227551 to 227554.**

From Costa Rica. Seeds collected by B. G. Schubert, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 17, 1955.

**227551.** *BEGONIA CARPINIFOLIA* Liebm. Begoniaceae.

Col. No. 629. Along ravine, off main road to left of Pulperia Las Nubes, Las Nubes. June 2, 1955. Stout spreading herb or shrub on overhanging bank along stream.

**227552.** *BEGONIA INVOLUCRATA* Liebm.

Col. No. 633. Along ravine, off main road to left of Pulperia Las Nubes, Las Nubes. June 2, 1955. Stout shrub, in fruit.

**227553.** *INGA VERA* Willd. Mimosaceae.

**Guaba inga.**

Col. No. 905. Farm outside Barranca. July 22, 1955. Spreading tree, in fruit.

**227554.** (Undetermined.) Araceae.

Col. No. 619. Along trail near river, Alajuelita, south of San Jose. May 28, 1955. Araceous plant in fruit; berries bright red.

**227555 to 227567. GLYCINE MAX (L.) Merr. Fabaceae. Soybean.**

From Japan. Seeds obtained by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 18, 1955.

**227555 to 227566.** From the Obihiro Experiment Station, Hokkaido.

**227555.** 'Akazaya No. 1'.

**227561.** 'Ooyachi No. 2'.

**227556.** 'Chuseihikariguro'.

**227562.** 'Rankoshi No. 1'.

**227557.** 'Geden-shirazu'.

**227563.** 'Shizunai Daizu'.

**227558.** 'Jockachihadaka'.

**227564.** 'Tokachi-nagaba'.

**227559.** 'Kitami-nagaba'.

**227565.** 'Wasehadaka'.

**227560.** 'Nukanai Daizu'.

**227566.** 'Yoshioka Tairiu'.

**227567.** 'Nanguntakedate'. From Aomori Prefecture.

**227568 to 227578.**

From Japan. Plant material collected by J. J. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 18, 1955.

Collected Aug., 1955.

**227568.** *CAMELLIA JAPONICA* L. Theaceae.

**Common camellia.**

Col. No. 341. 'Taubake'. Kominato, Aomori Prefecture. Northern limit where this is native. (Plants.)

**227569.** *ILEX CRENATA* var. *RADICANS* (Nakai) Tatewaki Aquifoliaceae.

**Japanese holly.**

Col. No. 345. Mount Hakkoda, near Jigokunuma, Aomori Prefecture. Prostrate; leaves small; fruits black. (Plants.)

**227570.** *ILEX LEUCOCLADA* Makino

**Holly.**

Col. No. 342. Mount Hakkoda, near Jigokunuma, Aomori Prefecture. Semi-prostrate; young growth and stems reddish. (Plants.)

**227571.** *ILEX SUGEROKII* Maxim.

**Sugeroki holly.**

Col. No. 344. Mount Hakkoda, near Jigokunuma, Aomori Prefecture. Upright, evergreen; fruits red, solitary, axillary. (Plants.)



**227568 to 227578—Continued**

**227572.** *RHODODENDRON JAPONICUM* (Gray) Schneid. Ericaceae. **Japanese azalea.**

Col. No. 346. 'Penge-tsulsutsi'. Mount Hakkoda, near Jigokunuma, Aomori Prefecture. (Plants.)

**227573.** *RHODODENDRON OBTUSUM* var. *KAEMPFERI* (Planch.) Wilson **Torch azalea.**

Col. No. 340. 'Yama-tsutsuji'. Hakodate-yama, Oshima Province, Hokkaido. (Plants.)

**227574.** *VACCINIUM AXILLARE* Naki Vacciniaceae. **Blueberry.**

Col. No. 347. Mount Hakkoda, near Jigokunuma, Aomori Prefecture. (Plants.)

**227575.** *LILIUM LEICHTLINII* var. *TIGRINUM* (Regel) Nichols. Liliaceae.

Included with *Ilex surgerokii*, (Field Note No. 344.) (Bulbs.)

**227576.** *ILEX CRENATA* var. *RADICANS* (Nakai) Tatewaki **Japanese holly.**

Col. No. 345. Mount Hakkoda, near Jigokunuma, Aomori Prefecture. (Seeds.)

**227577.** *ILEX SUGEROKII* Maxim. Aquifoliaceae. **Sugeroki holly.**

Col. No. 344. Mount Hakkoda, near Jigokunuma, Aomori Prefecture. (Seeds.)

**227578.** *VACCINIUM SMALLII* A. Gray Vacciniaceae.

Col. No. 343. Mount Hakkoda, near Jigokunuma, Aomori Prefecture. Plant low; foliage reddish; fruits large, black with bitter flavor. (Seeds.)

**227579 to 227583.** *LITCHI CHINENSIS* Sonner. Sapindaceae. **Lychee.**

From India. Air layers presented by the Fruit and Research Station, Saharanpur, United Province. Received Aug. 18, 1955.

**227579.** *Calcuttia*'. **227582.** 'Late Seedless'.

**227580.** 'Early Large Red'. **227583.** 'Rose-scented'.

**227581.** 'Late Large Red'.

**227584 to 227590.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 19, 1955. Collected June and July, 1955.

**227584.** *LYCHNIS* sp. Silenaceae.

Col. No. 15252. Canyon above Dastana, south of Shahr-Kord. Elevation 7,500 feet. Spreading perennial to 16 inches.

**227585 and 227586.** *PRUNUS BOKHARIENSIS* Royle Amygdalaceae.

**227585.** Col. No. 15000. Abadeh, Fars. Fruits small, tart; color yellowish to red.

**227586.** Col. No. 15256. 'Shaftchi'. Dastana, south of Shahr-Kord. Elevation 7,000 feet. Grafted tree with small nectarine type of fruits of good flavor.

**227587.** *PRUNUS CERASIFERA* Ehrh. Amygdalaceae. **Myrobalan plum.**

Col. No. 15206. Dastana, south of Shahr-Kord. Elevation 6,800 feet. Cultivated; fruits small, light colored; flesh sweet.

**227588.** *PRUNUS* sp.

Col. No. 15075. 'Arjan'. Seven miles east of Sarvestan, Fars. Elevation 6,000 feet. Stout, erect shrub.

**227589.** *TULIPA* sp. Liliaceae.

Col. No. 15195. Eight miles west of Shahr-Kord, Bakhtiarian County. Elevation 7,000 feet.

**227590.** *VICIA* sp. Fabaceae.

Col. No. 15435. Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Dense polypodial perennial to 2 feet high.



**227591. MICROBERLINIA BISULCATA A. Chev. Caesalpiniaceae.**

From French Cameroons. Seed presented by the Service des Eaux et Forêts, Yaounde.  
Received Aug. 22, 1955.

From Yabassi.

**227592 to 227595.**

From Tunisia. Seeds presented by the Ecole Coloniale d'Agriculture de Tunis, Tunis.  
Received Aug. 22, 1955.

**227592.** MELILOTUS MESSANENSIS (L.) All. Fabaceae. **Sweetclover.**

**227593.** MELILOTUS ITALICA (L.) Lam. **Sweetclover.**

**227594.** MELILOTUS OFFICINALIS (L.) Lam. **Yellow sweetclover.**

**227595.** MELILOTUS SEGETALIS (Brot.) Seringe **Sweetclover.**

**227596 to 227619**

From Japan. Collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 22, 1955. Collected Aug. 15, 1955.

**227596.** CITRUS sp. Rutaceae.

Col. No. 376. 'Hyuga-natsu-mikara'. Prefecture Citrus Experiment Station, Hagi City, Yamaguchi.

**227597 and 227598.** CITRUS INTERMEDIA Tanaka

**227597.** Col. No. 350. Summer Citrus Experiment Station, Kumamoto, Kyushu.

**227598.** Col. No. 355. Horticultural Division, National Takai-kenki, Agriculture Experiment Station, Okitsu, Shizuoka.

**227599 and 227600.** CITRUS JUNOS Sieb.

**227599.** Col. No. 351. Summer Citrus Experiment Station, Kumamoto, Kyushu.

**227600.** Col. No. 357. Horticultural Division National Tokai-kenki Agricultural Experiment Station, Okitsu, Shizuoka, Ken.

**227601 to 227607.** CITRUS NATSUDAIDAI Hayata

**227601.** Col. No. 349. Summer Citrus Experiment Station, Kumamoto, Kyushu.

**227602.** Col. No. 354. Horticultural Division, National Tokai-kenki Agricultural Experiment Station, Okitsu, Shizuoka, Ken.

**227603.** Col. No. 364. Prefecture Citrus Experiment Station, Hagi City, Yamaguchi.

**227604.** Col. No. 366. Prefecture Citrus Experiment Station, Hagi City, Yamaguchi.

**227605.** Col. No. 368. (No. 167) Prefecture Citrus Experiment Station, Hagi City, Yamaguchi.

**227606.** Col. No. 368. B. 1. Prefecture Citrus Experiment Station, Hagi City, Yamaguchi.

**227607.** Col. No. 372. Prefecture Citrus Experiment Station, Hagi City, Kamaguchi.

**227608 and 227609.** CITRUS TACHIBANA (Makino) Tanaka **Japanese orange.**

**227608.** Col. No. 353. Horticultural Division, National Tokai-kenki Agricultural Experiment Station, Okitsu, Shizuoka.

**227609.** Col. No. 374. Prefecture Citrus Experiment Station, Hagi City, Yamaguchi.

**227610.** CITRUS TAIWANICA Tanaka & Shimada

Col. No. 356. Horticultural Division, National Tokai-kenki Agricultural Experiment Station, Okitsu, Shizuoka, Ken.

**227596 to 227619—Continued****227611. CITRUS sp.**

Col. No. 375. Prefecture Citrus Experiment Station, Hagi City, Yamaguchi.

**227612. PONCIRUS TRIFOLIATA (L.) Raf. Rutaceae.****Trifoliolate-orange.**

Col. No. 352. Summer Citrus Experiment Station, Kumamoto, Kyushu.

**227613. PONCIRUS TRIFOLIATA var. MONSTROSA (T. Ito) Swingle**

Col. No. 358. Horticultural Division, National Tokai-kenki Agricultural Experiment Station, Okitsu, Shizuoka, Ken.

**227614 to 227617. PONCIRUS TRIFOLIATA (L.) Raf.**

**227614.** Col. No. 359. Horticultural Division, National Tokai-kenki Agricultural Experiment Station, Okitsu, Shizuoka, Ken.

**227615.** Col. No. 360. Tokai-kenki Agricultural Experiment Station, Okitsu, Shizuoka, Ken.

**227616.** Col. No. 361. Horticultural Division, National Tokai-kenki Agricultural Experiment Station, Okitsu, Shizuoka-ken.

**227617.** Col. No. 362. Horticultural Division, National Tokai-kenki Agricultural Experiment Station, Okitsu, Shizuoka, Ken.

**227618. VITIS AMURENSIS Rupr. Vitaceae.****Amur grape.**

Col. No. 83. Botanical Garden, Kyoto University, Kyoto. Staminate and pistillate plants. Originally collected in China.

**227619. VITIS COIGNETIAE Pulliat****Gloryvine grape.**

Col. No. 84. Botanical Garden, Kyoto.

Originally from China.

**227620. BETA sp. Chenopodiaceae.**

From Iran. Roots collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 22, 1955.

Col. No. 15550. Villate near Namin, Azerbaijan. Aug. 11, 1955. Elevation 6,500 feet. Perennial with long, deep roots; growing in alfalfa field.

**227621 to 227655.**

From Japan. Collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 23, 1955.

Collected Aug., 1955.

**227621. VITIS DAVIDII (Carr.) Foëx. Vitaceae.****Brier grape.**

Col. No. 82. Cuttings from the Botanical Garden Kyoto University, Kyoto. Originally from China.

**227622 to 227626. CAMELLIA SASANQUA Thunb. Theaceae. Sasanqua camellia.**

Plants from Yamoto Nursery, Yamamoto, Hyogo Prefecture.

**227622.** Col. No. 125. 'Shishi gashira'. Flowers double, red.

**227623.** Col. No. 129. 'Fuji no-mine'. Flowers double, white, October.

**227624.** Col. No. 130. 'Kokinran'. Flowers single, red and white striped, October.

**227625.** Col. No. 131. 'Hiodoshi'. Flowers semidouble, red with white stripes, November.

**227626.** Col. No. 133. 'Hiri-yu'.

**227627. CAREX MORROWII Boott Cyperaceae.****Morrow sedge.**

Col. No. 116. Osaka City Botanic Garden, Kisaichi, Kono-machi, Kitakochi, Osaka. Leaves variegated. (Plants.)

**227621 to 227655—Continued**

**227628 and 227629.** CITRUS INTERMEDIA Tanaka Rutaceae.

**227628.** Col. No. 387. Shizuoka Citrus Experiment Station, Komagoe, Shimizu, Shizuoka. (Budwood.)

**227629.** Col. No. 393. Wakayama Fruit Experiment Station, Todoromura, Aritagun, Wakayama. (Budwood.)

**227630 to 227632.** CITRUS JUNOS Sieb.

**227630.** Col. No. 389. Shizuoka Citrus Experiment Station, Komagoe, Shimizu, Shizuoka. (Budwood.)

**227631.** Col. No. 394. Wakayama Fruit Experiment Station, Todoromura, Aritagun, Wakayama. (Budwood.)

**227632.** Col. No. 396. Ehime Experiment Station, Higashino, Matsuyama City, Ehime Prefecture. (Budwood.)

**227633 to 227635.** CITRUS NATSUDAIDAI Hayata

**227633.** Col. No. 386. Shizuoka Citrus Experiment Station, Komagoe, Shimizu, Shizuoka. (Budwood.)

**227634.** Col. No. 392. Wakayama Fruit Experiment Station, Todoromura, Aritagun, Wakayama. (Budwood.)

**227635.** Col. No. 395. Rhime Experiment Station, Higashino, Matsuyama City, Rhime Prefecture. (Budwood.)

**227636 and 227637.** CITRUS TACHIBANA Tanaka

**Japanese orange.**

**227636.** Col. No. 385. Shizuoka Citrus Experiment Station, Komagoe, Shimizu, Shizuoka. (Budwood.)

**227637.** Col. No. 391. Wakayama Fruit Experiment Station, Todoromura, Aritagun, Wakayama. (Budwood.)

**227638.** CITRUS TAIWANICA Tanaka & Shimada.

Col. No. 388. Shizuoka Citrus Experiment Station, Komagoe, Shimizu, Shizuoka. (Budwood.)

**227639.** COTONEASTER sp. Malaceae.

Col. No. 122. Ikeda Nursery, Osaka Prefecture. (Plants.)

**227640.** QUERCUS MYRSINAEFOLIA Blume Fagaceae.

**Oak.**

Col. No. 119. Osaka City Botanical Garden, Kisaichi, Kono-machi, Kitakochi, Osaka. Evergreen tree; leaves small, ovate, coarsely serrate. (Plants.)

**227641.** GARDENIA AUGUSTA (L.) Merr. Rubiaceae.

Col. No. 127. Yamamoto Nursery, Yamamoto City, Hyogo Prefecture. Dwarf, to 1 foot high; flowers in July. (Plants.)

**227642.** HOSTA ALBOMARGINATA (Hook.) Ohwi Liliaceae.

Col. No. 115. Botanic Garden, Kisaichi, Kono-machi, Kitakochi, Osaka. Various forms ranging from dwarf to tall, also variegated. (Plants.)

**227643.** HOUTTUYNIA sp. Saururaceae.

Col. No. 117. Osaka City Botanical Garden, Kisaichi, Kono-machi, Kitakochi, Osaka. Leaves variegated. (Plants.)

**227644.** LYCORIS SANGUINEA Maxim. Amaryllidaceae.

**Orange lycoris.**

Col. No. 498. Obtained from H. Nogouri, Tokyo. (Plants.)

**227645 and 227646.** NANDINA DOMESTICA Thunb. Berberidaceae.

**227645.** Col. No. 123. 'Shiro-nanten'. Ikeda Nursery, Osaka Prefecture. Fruit white. (Plants.)



**227621 to 227655—Continued****227645 to 227646—Continued**

**227646.** Col. No. 124. 'Nanter'. Ikeda Nursery, Osaka Prefecture. Fruits unusually dark red. (Plants.)

**227647.** *OSMANTHUS* sp. Oleaceae.

Col. No. 121. Ikeda Nursery, Osaka Prefecture. Leaves obovate, entire. (Plants.)

**227648.** *PITTOSPORUM TOBIRA* (Willd.) Ait. Pittosporaceae.

Col. No. 132. Yamamoto Nursery, Yamamoto City. Hyogo Prefecture.

**227649.** *PONCIRUS TRIFOLIATA* var. *MONSTROSA* (T. Ito) Swingle Rutaceae.  
Trifoliolate-orange.

Col. No. 390. Shizuoka Citrus Experiment Station, Komagoe, Shimizu, Shizuoka. (Budwood.)

**227650.** *PONCIRUS TRIFOLIATA* (L.) Raf. Trifoliolate-orange.

Col. No. 397. Ehime Experiment Station, Hyashino, Matsuyama City, Ehime Prefecture. (Budwood.)

**227651.** *PIERIS JAPONICA* (Thunb.) G. Don Ericaceae. Japanese pieris.

Col. No. 128. 'Beni-bana-asebi'. Yamamoto Nursery, Yamamoto City, Hyogo Prefecture. Flowers red. (Plants.)

**227652.** *RAPHIOLEPIS UMBELLATA* (Thunb.) C. Schneid. Malaceae.  
Yeddo-hawthorn.

Col. No. 106. Botanic Garden, Kisaichi, Kono-machi, Kitakochi, Osaka. Handsome, dwarf shrub; leaves obovate; flowers white. (Plants.)

**227653.** *SINOMENIUM DIVERSIFOLIUM* Diels Menispermaceae.

Col. No. 90. On wooded slopes, Kanikamo Forest, Kyoto. Scandent vine.

**227654.** *VACCINIUM JAPONICUM* Miq. Vacciniaceae. Japanese blueberry.

Col. No. 118. Osaka City Botanical Garden, Kisaichi, Kono-machi, Kitakochi, Osaka. Dwarf; branches angular; leaves small. (Plants.)

**227655.** *VITEX ROTUNDIFOLIA* L. f. Verbenaceae.

Col. No. 67. On seawall, Okitsu, Ihara District, Shizuoka Prefecture. Vine succulent; stems squarish; leaves round.

**227656.** *PRUNUS DOMESTICA* L. Amygdalaceae. Common plum.

From New Zealand. Budwood presented by A. H. Swarbrick, Hamilton. Received Aug. 23, 1955.

'Sage McVerna'.

**227657 to 227679.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 26, 1955.

Collected June and July, 1955.

**227657.** *AGROSTIS SEMIVERTICILLATA* (Forsk.) C. Chr. Poaceae. Benigrass.

Col. No. 15135. Near Homaijan, Fars. Elevation 6,500 feet.

**227658.** *AVENA* sp. Poaceae.

Col. No. 15115. Kowkun Valley, Fars. Elevation 7,500 feet. On stony land. Perennial to 1 foot high.



**227657 to 227679—Continued**

**227659 and 227660.** *BOISSIERA BROMOIDES* Hochst. & Steud. Poaceae.

**227659.** Col. No. 14942. Bajgah, 10 miles northeast of Shiraz. Elevation 5,000 feet. Common spring annual grass; browsed by sheep.

**227660.** Col. No. 14943. Bajgah, 10 miles northeast of Shiraz. Elevation 5,000 feet. Common tufted annual grass.

**227661.** *BROMUS STERILIS* L. Poaceae.

**Poverty brome.**

Col. No. 15021. Chelcheshmi, about 30 miles west of Shiraz. Elevation 6,500 feet.

**227662 and 227663.** *CUCUMIS MELO* L. Cucurbitaceae.

**Muskmelon.**

**227662.** Col. No. 14851. 'Harbusa'. Market, Esfahan. Elevation 5,300 feet. Fruits oblong; yellow and green; excellent flavor.

**227663.** Col. No. 15070. 'Harbusa'. Market, Estavanat, Fars. Elevation 5,900 feet. Fruits large, oblong; cultivated by irrigation.

**227664.** *CUCUMIS SATIVUS* L.

**Cucumber.**

Col. No. 15062. Market, Estavanat, Fars. Elevation 5,900 feet. Small, mild-flavored variety.

**227665 and 227666.** *ELYMUS CRINITUS* Schreb. Poaceae.

**Wildrye.**

**227665.** Col. No. 15935. Bajgah, 10 miles northeast of Shiraz. Elevation 5,000 feet. Xerophytic annual.

**227666.** Col. No. 15013. About 13 miles west of Shiraz. Elevation 6,000 feet. Abundant, colonial annual to 1 foot high.

**227667.** *FENRARDIA PERSICA* (Boiss.) C. E. Hubb. Poaceae.

Col. No. 15018. About 13 miles west of Shiraz. Elevation 6,000 feet. Small, rare annual.

**227668.** *HORDEUM* sp. Poaceae.

Col. No. 14981. Limestone slope, Bavanat Valley, Fars. Elevation 7,500 feet. Tough xerophytic perennial.

**227669.** *HORDEUM* sp.

Col. No. 15031. Mountain pass above Dasht Arjan, Fars. Elevation 7,200 feet. Stooling annual; distinct, but much like cultivated barley.

**227670.** *PHALARIS ARUNDINACEA* L. Poaceae.

**Reed canarygrass.**

Col. No. 15128. 'Negila'. Komehr Valley, Fars. Elevation 7,500 feet. Hydrophytic, along ditches.

**227671.** *PISUM SATIVUM* L. Fabaceae.

**Garden pea.**

Col. No. 15116. Kowkun Valley, Fars. Elevation 7,500 feet. Small, leafy, perennial; along irrigation ditch.

**227672.** *POA TRIVIALIS* L. Poaceae.

**Roughstalk bluegrass.**

Col. No. 15130. Komehr Valley, Fars. Elevation 7,500 feet. Small, leafy perennial; along irrigation ditch.

**227673.** *POA* sp.

Col. No. 15131. Komehr Valley, Fars. Elevation 7,500 feet. Perennial with single culm.

**227674.** *PRUNUS* sp. Amygdalaceae.

Col. No. 15034. 'Boharach'. Mountain slope between Dasht Arjan and Kazerun, Fars. Elevation 5,000 feet. Spreading tree; branchlets green. Used as grafting stock for cultivated almonds.

**227675.** *PRUNUS* sp.

Col. No. 15076. 'Arjan'. Seven miles east of Sarvestan, Fars. Elevation 6,000 feet. Vigorous, erect spreading shrub.

**227657 to 227679—Continued****227676.** *STIPA* sp. Poaceae.

Col. No. 14966. Fifteen miles east of Dehbid, Fars. Elevation 8,000 feet. Perennial, forming low clumps; eaten by gazelles and sheep.

**227677.** *TRIGONELLA MONANTHA* C. A. Mey. Fabaceae.

Col. No. 14957. Fields of Takht-e Jamshid. Elevation 5,500 feet. Spreading annual, along ditch.

**227678.** *TRITICUM AESTIVUM* L. Poaceae.**Common wheat.**

Col. No. 15242. 'Gandum kakuli'. Dastana, south of Shahr-Kord. Elevation 6,800 feet. Irrigated spring type.

**227679.** *ZEa MAYS* L. Poaceae.**Corn.**

Col. No. 15142. 'Durat'. Market, Shiraz. Elevation 5,200 feet.

**227680.** *SOLANUM TUBEROSUM* L. Solanaceae.**Potato.**

From Australia. Tubers presented by N. S. Shirlow, Department of Agriculture, Sydney, New South Wales. Received Aug. 26, 1955.

Selection 11-79 (Walanga).

**227681 to 227683.**

From Japan. Seeds collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 26, 1955.

**227681.** *ABIES SACHALINENSIS* (Schmidt) Masters Pinaceae.**Sakhalin fir.**

Col. No. 383. Kushiro, Teshikaga Forestry Station, Hokkaido. Aug. 17, 1955.

**227682.** *PICEA JEZOENSIS* (Sieb. & Zucc.) Carr. Pinaceae.**Yeddo spruce.**

Col. No. 384. Kushiro, Teshikaga Forestry Station, Hokkaido. Aug. 17, 1955.

**227683.** *ZOYSIA JAPONICA* Steud. Poaceae.**Japanese lawngrass.**

Col. No. 348. Mount Hokkaido, near Jigokunuma, Aomori Prefecture. Aug. 13, 1955.

**227684 to 227689.**

From Okinawa. Seeds collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 26, 1955.

From the Agricultural Experiment Station, Naha. Aug. 17, 1955.

**227684 to 227686.** *GLYCINE MAX* (L.) Merr. Fabaceae.**Soybean.****227684.** Col. No. 377. 'Aiohigu'.**227685.** Col. No. 378. 'Shiko-anola'. Vegetable type.**227686.** Col. No. 379.**227687 to 227689.** *GLYCINE TOMENTOSA* Benth.**227687.** Col. No. 380. No. 1. 'Miyako white'.**227688.** Col. No. 381. No. 2.**227689.** Col. No. 382. No. 30. White.**227690.** *CALLISTEMON SHIRESSII* Blakely Myrtaceae. **Bottlebrush.**

From Australia. Seeds presented by Hazlewood Bros., Proprietary Limited, Epping, New South Wales. Received Aug. 29, 1955.

**227691** *MALUS* sp. Malaceae.

From India. Seeds presented by the Division of Mycology, Indian Agricultural Research Institute, New Delhi. Received Aug. 29, 1955.

Collected in Kashmir.

**227692 to 227698.**

From Sicily. Budwood presented by the Stazione Agromicoltura, Acireale. Received Aug. 30, 1955.

**227692.** CITRUS LIMON (L.) Burm. f. Rutaceae. **Lemon.**

'Santa Theresa'. No. 1. Clone selected from a tree of 'Feminello' at Santa Theresa in Messina which survived "mal secco." Aug. 22, 1955.

**227693.** CITRUS RETICULATA Blanco **Mandarin orange.**

'Avana'. No. 7. A variety from Acireale, West Sicily. Budwood from one tree. Aug. 22, 1955.

Originally from Palermo.

**227694 to 227698.** CITRUS SINENSIS (L.) Osbeck **Sweet orange.**

Collected Aug. 22, 1955.

**227694.** 'Bella Donna'. No. 4. An old Sicilian variety.

**227695.** 'Ovale'. No. 2. An old Sicilian variety.

**227696.** 'Ovale'. No. 3.

**227697.** 'Noro'. No. 5.

**227698.** 'Sangra Doble Fina'. No. 6. Originally from Spain.

**227699 to 227718.**

From Brazil. Seeds presented by Instituto Agronomico do Estado de Sao Paulo, Campinas, Sao Paulo. Received Aug. 30, 1955.

**227699 to 227706.** COFFEA ARABICA L. Rubiaceae. **Arabian coffee.**

**227699.** 'Angustifolia' (C-15-2). **227703.** 'Bourbon' (red).

**227700.** 'Anomala' (C-19). **227704.** 'Caturra' (yellow).

**227701.** 'Anormalis'. **227705.** 'Caturra' (red).

**227702.** 'Bourbon' (yellow). **227706.** 'Cera'.

**227707.** COFFEA ARABICA var. ERECTA Cramer **Coffee.**

**227708.** COFFEA ARABICA var. GOIABA Taschdjian **Coffee.**

G-30.

**227709.** COFFEA ARABICA var. LAURINA Cramer **Coffee.**

**227710 and 227711.** COFFEA ARABICA var. MARAGOGIPE Froehn **Coffee.**

**227710.** Yellow.

**227711.** Red.

**227712.** COFFEA ARABICA var. MOKKA Cramer **Coffee.**

**227713.** COFFEA ARABICA L. **Arabian coffee.**

'Murta'.

**227714.** COFFEA ARABICA var. POLYSPERMA Cramer **Coffee.**

**227715.** COFFEA ARABICA var. PURPURASCENS Cramer **Coffee.**

**227716 to 227718.** COFFEA ARABICA L. **Arabian coffee.**

**227716.** 'Semperflorens'.

**227717.** Typical form. (C10).

**227718.** 'Xanthocarpa'.

**227719.** CLAUSENA INDICA Oliver Rutaceae.

From Australia. Seeds presented by Edward Pollock, Parkes, New South Wales. Received Aug. 31, 1955.

**227720. SCHINOPSIS LORENTZII (Griseb.) Engl. Anacardiaceae.****Quebracho.**

From Argentina. Seeds presented by the Division de Exploraciones y Introduccion de Plantas, Buenos Aires. Received Aug. 31, 1955.

SD 55-170.

**227721. MALUS SYLVESTRIS Mill. Malaceae.****Apple.**

From Germany. Budsticks presented by the Christian Fey Nursery, Meckenheim bei Bonn. Received Aug. 31, 1955.

'Schöner aus Boskoop'.

**227722 to 227747. FRAGARIA (hybrids). Rosaceae.****Strawberry.**

From Germany. Plants presented by Dr. H. Muller, Institut für Gartenbau, Dresden-Pillnitz. Received Sept. 1, 1955.

227722. 'Aprikose'.

227735. 'Laxton's Noble'.

227723. 'Bavaria'.

227736. 'Lucida Perfecta'.

227724. 'Deutsch Evern'.

227737. 'McMahon'.

227725. 'Eva Macpherauch'.

227738. 'Mieze Schindler'.

227726. 'Ernst Preuss'.

227739. 'Roter Elefant'.

227727. 'Flandern'.

227740. 'Rotkappchen'.

227728. 'Franken'.

227741. 'Sharpless'.

227729. 'Georg Soltwedel'.

227742. 'Sieger'.

227730. 'Hansa'.

227743. 'Triumph'.

227731. 'Johannes Muller'.

227744. 'Lucida Perfecta Improved'.

227732. 'Jucunda'.

227745. 'Weisse Ananas'.

227733. 'Kaiser's Samling'.

227746. 'Wunder von Kothen'.

227734. 'Latest of All'.

227747. 'Zarathustra'.

**227748. SEDUM sp. Crassulaceae.**

From Iran. Plant collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 1, 1955.

Col. No. 15533. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Small, perennial; among rocks.

**227749 to 227753.**

From Turkey. Seeds presented by the Seed Improvement Station, Eskisehir. Received Sept. 2, 1955.

227749 to 227751. LOTUS CORNICULATUS L. Fabaceae.

**Birdsfoot trefoil.**

227749. No. 1-155. Yesilkoy.

227750. No. 1-203. Eskisehir.

227751. No. 1-340. Ankara.

227752. TETRAGONLOBUS PURPUREUS Moench Fabaceae.

Reg. No. 1-99. Originally from Cyprus.

227753. LOTUS sp. Fabaceae.

Reg. No. 1-96. Originally from Cyprus.

**227754 to 227831.**

From Guatemala. Seeds presented by the Servicio Cooperativo Inter-Americano de Agricultura, Guatemala City. Received Sept. 2, 1955.



**227754 to 227831—Continued**

<b>227754 and 227755.</b> <i>PHASEOLUS AUREUS</i> Roxb. Fabaceae.		<b>Mung bean.</b>
227754. No. 6175.		
227755. No. 6176.		
<b>227756.</b> <i>PHASEOLUS CALCARATUS</i> Roxb. Fabaceae.		<b>Rice bean.</b>
No. 6232.		
<b>227757 to 227762.</b> <i>PHASEOLUS LUNATUS</i> L. Fabaceae.		<b>Lima bean.</b>
227757. No. 6190.	227760. No. 6229.	
227758. No. 6218.	227761. No. 6230.	
227759. No. 6221.	227762. No. 6257.	
<b>227763.</b> <i>PHASEOLUS MUNGO</i> L. Fabaceae.		<b>Urd.</b>
No. 6178.		
<b>227764.</b> <i>PHASEOLUS POLYANTHUS</i> Greenm. Fabaceae.		<b>Bean.</b>
No. 6231.		
<b>227765 to 227825.</b> <i>PHASEOLUS VULGARIS</i> L. Fabaceae.		<b>Common bean.</b>
227765. No. 6173.	227793. No. 6210.	
227766. No. 6174.	227794. No. 6211.	
227767. No. 6177.	227795. No. 6212.	
227768. No. 6179.	227796. No. 6213.	
227769. No. 6180.	227797. No. 6214.	
227770. No. 6181.	227798. No. 6215.	
227771. No. 6182.	227799. No. 6216.	
227772. No. 6183.	227800. No. 6220.	
227773. No. 6184.	227801. No. 6222.	
227774. No. 6185.	227802. No. 6224.	
227775. No. 6186.	227803. No. 6225.	
227776. No. 6187.	227804. No. 6226.	
227777. No. 6189.	227805. No. 6227.	
227778. No. 6191.	227806. No. 6228.	
227779. No. 6193.	227807. No. 6233.	
227780. No. 6194.	227808. No. 6234.	
227781. No. 6195.	227809. No. 6235.	
227782. No. 6197.	227810. No. 6237.	
227783. No. 6198.	227811. No. 6238.	
227784. No. 6201.	227812. No. 6239.	
227785. No. 6202.	227813. No. 6240.	
227786. No. 6203.	227814. No. 6241.	
227787. No. 6204.	227815. No. 6242.	
227788. No. 6205.	227816. No. 6243.	
227789. No. 6206.	227817. No. 6244.	
227790. No. 6207.	227818. No. 6245.	
227791. No. 6208.	227819. No. 6246.	
227792. No. 6209.	227820. No. 6247.	

**227754 to 227831—Continued****227765 to 227825—Continued****227821.** No. 6248.**227824.** No. 6251.**227822.** No. 6249.**227825.** No. 6252.**227823.** No. 6250.**227826 to 227831.** *VIGNA SINENSIS* (Torner) Savi Fabaceae. Common cowpea.**227826.** No. 6196.**227829.** No. 6253.**227827.** No. 6199.**227830.** No. 6254.**227828.** No. 6200.**227831.** No. 6255.**227832 to 227880.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 30, 1955.

Collected in June and July, 1955.

**227832.** *AEGILOPS CRASSA* Boiss. Poaceae.**Goatgrass.**

Col. No. 15210. Dastana, south of Shahr-Kord. Elevation 6,800 feet. Low spring annual; about 8 inches high; head very large.

**227833.** *ASTRAGALUS PTYCHOPHYLLUS* Boiss. Fabaceae.**Milkvetch.**

Col. No. 15170. 'Titack'. Kullykush, between Dehbid and Abadeh, Fars. Elevation 8,000 feet. Low, spreading perennial; about 8 inches high; heads long pedunculate; roots with small gum cylinder.

**227834.** *ASTRAGALUS* sp.

Col. No. 15173. Sixteen miles northwest of Abadeh, Fars. Elevation 7,000 feet. Bush small, erect; spiny; roots with gum cylinder.

**227835.** *ASTRAGALUS* sp.

Col. No. 15193. Near Ghaverokh along road to Shahr-Kord. Elevation 7,700 feet. Perennial bush; browsed by livestock.

**227836.** *ASTRAGALUS* sp.

Col. No. 15202. Dastana, south of Shahr-Kord. Elevation 6,800 feet. Low, spreading, prostrate perennial; browsed by sheep.

**227837.** *ASTRAGALUS* sp.

Col. No. 15231. Limestone mountain southwest of Dastana, south of Shahr-Kord. Elevation 9,500 feet. Low, spreading, perennial about 9 inches broad; with gum cylinder.

**227838.** *AVENA* sp. Poaceae.

Col. No. 15248. Canyon above Dastana, south of Shahr-Kord. Elevation 7,000 feet. Perennial with bulbs on roots; scattered on rocky slope; palatable.

**227839 and 227840.** *BROMUS TOMENTELLUS* Boiss. Poaceae.**Brome.**

**227839.** Col. No. 14963. Twenty miles south of Dehbid along road to Shiraz. Elevation 7,000 feet. Perennial to 4 feet high; good xerophytic forage plant.

**227840.** Col. No. 15020. Near Chelchesmi, 30 miles west of Shiraz. Elevation 6,500 feet. Perennial; heads small, on slender culms; palatable.

**227841.** *CACHRYS* sp. Apiaceae.

Col. No. 15151-A. 'Sweet Jashir'. Mountain southwest of Bajgah Valley, east of Shiraz. Elevation 7,500 feet. Bushy, spreading, perennial herb; leaves abscising at ground level. Leaf stems eaten pickled; hay fed to cattle to increase milk production.

**227842.** *EREMURUS* sp. Liliaceae.

Col. No. 15178. Twenty miles northwest of Abadeh, Fars. Elevation 7,000 feet. Herb with several peduncles; flowers lined pale-red.

**227832 to 227880—Continued****227843.** *FERULA* sp. Apiaceae.

Col. No. 15152. 'Koma'. Mountain southwest of Bajgah Valley, east of Shiraz. Elevation 7,500 feet. Bushy coarse herb; leaves dissected; used as hay for winter feeding.

**227844.** *HORDEUM* sp. Poaceae.

Col. No. 15162. Kuhe Bavanat, Fars. Elevation 8,000 feet. Arid rocky slope. Stongly rooted, tufted perennial; eaten by sheep and goats.

**227845 and 227846.** *HORDEUM VULGARE* L.**Barley.****227845.** Col. No. 15187. 'Jul'. Near Ghaverokh, along road to Shahr-Kord. Elevation 7,700 feet. Cultivated by irrigation for stock feed.**227846.** Col. No. 15198. Eight miles west of Shahr-Kord, Bakhtiari Country. Elevation 7,000 feet. Plant short, multiple stooling, about 16 inches high.**227847.** *LATHYRUS CICERA* L. Fabaceae.**Flatpod peavine.**

Col. No. 15159. 'Gavdanch Horoo'. Didigone, Fars. Bushy, annual herb, to 1 foot high; flowers blue; cultivated by irrigation for cattle feed.

**227848.** *LINUM* sp. Linaceae.

Col. No. 15208. Dastana, south of Shahr-Kord. Elevation 6,800 feet. Spring. annual; flowers large, yellow.

**227849.** *LOTUS CORNICULATUS* L. Fabaceae.**Birdsfoot trefoil.**

Col. No. 15119. Kowkun Valley, Fars. Elevation 7,500 feet. Procumbent, perennial herb; well liked by livestock.

**227850.** *MEDICAGO POLYMORPHA* var. *VULGARIS* (Benth.) Shinnars Fabaceae.**California burclover.**

Col. No. 15155. Bajgah, about 10 miles east of Shiraz. Elevation 5,500 feet.

**227851.** *MEDICAGO SATIVA* L. Fabaceae.**Alfalfa.**

Col. No. 15209. Dastana, south of Shahr-Kord. Elevation 6,800 feet.

**227852.** *MORUS ALBA* L. Moraceae.**White mulberry.**

Col. No. 15141. 'Tut shehfit'. Market, Shiraz. Elevation 5,200 feet. Large spreading tree; valued for shade and fruit.

**227853.** *ONOBRYCHIS* sp. Fabaceae.

Col. No. 15200. About 12 miles west of Shahr-Kord, Bakhtiarian Country. Elevation 6,800 feet. Eaten by sheep.

**227854.** *ONOBRYCHIS* sp.

Col. No. 15241. Dastana, south of Shahr-Kord. Elevation 6,800 feet. Spring annual; ungrazed area near wheat field.

**227855.** *ORYZOPSIS HOLCIFORMIS* (M. Breb.) Hack. Poaceae.**Ricegrass.**

Col. No. 14980. Limestone slope, Bavanat Valley, Fars. Elevation 7,500 feet. Perennial herb; leaves to 6 inches long; much liked by gazelles and sheep.

**227856.** *ORYZOPSIS* sp. Poaceae.

Col. No. 15028. Mountain pass above Dasht Arjan, Fars. Elevation 7,200 feet. Tall vigorous perennial.

**227857.** *ORYZOPSIS* sp.

Col. No. 15232. Limestone mountain southwest of Dastana, south of Shahr-Kord. Elevation 9,500 feet. Perennial; much liked by sheep.

**227858.** *POA ATTICA* Boiss & Heldr. Poaceae.**Bluegrass.**

Col. No. 15025. Dasht Arjan, Fars. Elevation 6,600 feet. Perennial growing along stream.

**227859 to 227862.** *PRUNUS ARMENIACA* L. Amygdalaceae.**Apricot.****227859.** Col. No. 14144. 'Zadoluh Tarh'. Market, Shiraz. Elevation 5,200 feet. Variety with bitter pits.

**227832 to 227880—Continued****227859 to 227862—Continued**

**227860.** Col. No. 15143. 'Katanie'. Market, Shiraz. Elevation 5,200 feet. Medium-sized trees; fruits large, sweet.

**227861.** Col. No. 15244. 'Sardoluh'. Dastana, south of Shahr-Kord. Elevation 6,700 feet. Seeds of two varieties.

**227862.** Col. No. 15066. Market, Estavanat, Fars. Elevation 5,900 feet. Variety with small fruits.

**227863 and 227864.** *PRUNUS AVIUM* L. **Sweet cherry.**

**227863.** Col. No. 15138. 'Albalu'. Market, Shiraz. Elevation 5,200 feet.

**227864.** Col. No. 15148. 'Gilas'. Market, Shiraz. Elevation 5,200 feet. Fruits medium size.

**227865.** *PRUNUS PERSICA* (L.) Batsch **Peach.**

Col. No. 15146. 'Shaftalu and Holuh'. Market, Shiraz. Elevation 5,200 feet. Mixture of 2 varieties; one large and sweet; the other small and sour.

**227866.** *PRUNUS* sp.

Col. No. 15163. Kuhe Bavanat, Fars. Elevation 8,500 feet. Low spreading shrub on rocks; fruits black.

**227867.** *PRUNUS* sp.

Col. No. 15180. Market, Estavanat, Fars.

**227868.** *RHEUM* sp. Polygonaceae.

Col. No. 15096. South ridge of Kuhe Barmeh Firuz, Fars. Elevation 10,000 feet. A wild, edible rhubarb.

**227869.** *RICINUS COMMUNIS* L. Euphorbiaceae. **Castorbean.**

Col. No. 15139. 'Karchakh'. Market, Shiraz. Elevation 5,200 feet. Cultivated for oil.

**227870.** *SECALE CEREALE* L. Poaceae. **Rye.**

Col. No. 15188. Near Ghaverokeh along road to Shahr-Kord. Elevation 7,700 feet. An escape in wheatfields.

**227871.** *SEDUM* sp. Crassulaceae.

Col. No. 15533. Northeast side of Kuhe Savalan, Azerbaijan. Elevation 11,000 feet. Small perennial among rocks.

**227872.** *STIPA* sp. Poaceae.

Col. No. 15001. Twenty-two miles south of Dehbid along road from Abadeh to Shiraz. Elevation 7,000 feet. Tall perennial bunchgrass.

**227873 and 227874.** *TRIFOLIUM REPENS* L. Fabaceae. **Whiteclover.**

**227873.** Col. No. 15044. Dasht Arjan, Fars. Elevation 6,600 feet.

**227874.** Col. No. 15090. Homaijan near Ardakan, Fars. Elevation 7,000 feet.

**227875.** *TRIFOLIUM RESUPINATUM* L. **Persian clover.**

Col. No. 15137. Market, Shiraz. Elevation 5,200 feet.

**227876.** *TRIFOLIUM REPENS* L. **Whiteclover.**

Col. No. 15215. Dastana, south of Shahr-Kord. Elevation 6,800 feet. Stoloniferous, spreading perennial; flowers white.

**227877.** *TRITICUM* (hybrid). Poaceae.

Col. No. 15203. (*Triticum* × *Aegilops*). Dastana, south of Shahr-Kord. Elevation 6,800 feet. Small spring annual to 10 inches high; stems multiple.

**227878.** *VICIA ERVILIA* (L.) Willd. Fabaceae. **Bitter vetch.**

Col. No. 15204. 'Kesen'. Dastana, south of Shahr-Kord. Elevation 6,800 feet. Small spring annual; cultivated for cattle feed.



**227832 to 227880—Continued**

**227879 and 227880.** *VICIA ANGUSTIFOLIA* L. **Narrowleaf vetch.**

**227879.** Col. No. 15112. Kowkun Valley, Fars. Elevation 7,500 feet.

**227880.** Col. No. 15122. Kowkun Valley, Fars. Elevation 7,500 feet. Spreading herb, branching near base.

**227881.** *SAPINDUS MUKOROSSI* Gaertn. Sapindaceae.

**Chinese soapberry.**

From Japan. Plants growing at the United States Plant Introduction Station, Glenn Dale, Md. Received Sept. 6, 1955.

**227882 to 227917.** *PERSEA AMERICANA* Mill. Lauraceae. **Avocado.**

From Texas. Scions held at the Department of Genetics, Agricultural and Mechanical College of Texas, College Station. Received Sept. 6, 1955.

**227882 to 227900.** Collected by J. B. Chambers, Harlingen, Texas.

**227882 to 227886.** Selections from Victoria, Mexico.

**227882.** 'Castro No. 2'. Fruit purple, to 6 ounces; matures in late May and June. Parentage probably a Mexican type.

**227883.** 'Castro No. 3'. Fruit black, to 8 ounces; season September to October in Victoria but matures in July in the Rio Grande Valley. Parentage probably Mexican and Guatemalan types.

**227884.** 'Rogelio Diaz'. Fruit purple, to 14 ounces; season August in the Lower Rio Grande Valley. Parentage probably Mexican and West Indian types.

**227885.** 'Santa Engracia'. Fruit purple, pyriform, to 14 ounces; season July to August in Victoria. Parentage probably Mexican and West Indian types.

**227886.** 'Alanis No. 3'. Fruit deep purple, to 6 ounces; small neck; no anthracnose; matures in late May and June. Parentage probably is a Mexican type.

**227887 to 227900.** Selections from Llera, Mexico.

**227887.** 'Paz No. 3'. Fruit purple, to 10 ounces; medium to small seed; matures in November and December. Parentage probably Mexican and West Indian types.

**227888.** 'Paz No. 4'. Fruit purple, pyriform, to 10 ounces; medium to small seed; matures in November and December. Parentage probably Mexican and West Indian types.

**227889.** 1-16. Fruit green, to 10 ounces; matures in July. Parentage probably Mexican and West Indian types.

**227890.** 1-18. Fruit green, to 10 ounces; skin thin; matures in July. Parentage probably a Mexican and West Indian hybrid.

**227891.** 5-2. Parentage probably Mexican and West Indian types.

**227892.** 7-2. 'Llera'. Fruit black, to 1 ounce; seedless; matures in July and August. Parentage probably Mexican.

**227893.** 10-2. Fruit purple, to 9 ounces; skin thin; matures in August. Parentage probably Mexican and West Indian types.

**227894.** 12-5. Fruit black, to 1.5 ounces; a little anthracnose on a few fruits; matures in July. Parentage probably a Mexican type.

**227895.** 14-8. Fruit black, to 8 ounces; matures in July. Parentage probably Mexican and West Indian types.

**227896.** 17-1. Tree erect with small dark-green leaves; fruit black, to 6 ounces; matures in July. Parentage probably a Mexican type.

**227897.** 17-3. Tree very vigorous; fruit black, to 6 ounces; matures in July. Parentage probably Mexican and West Indian types.

**227882 to 227917—Continued****227882 to 227900—Continued****227887 to 227900—Continued**

**227898.** 18-19. Fruit green, to 8.5 ounces; matures in July. Parentage probably Mexican and West Indian types.

**227899.** 29-9. Fruit black, to 10 ounces; seed medium; matures in July. Parentage probably Mexican and West Indian types.

**227900.** 31-11. Fruit purple, to 8 ounces; matures in August and September. Parentage probably Mexican and West Indian types.

**227901 to 227907.** From the Exploration Committees of the Texas and California Avocado Societies.

**227901 to 227904.** From the Rodiles Plantation near Atlixco, Mexico.

**227901.** No. 13516. Fruit stalk 6 inches long, slender; fruit pale yellowish-green with conspicuous lenticels; flesh pale-cream colored, greenish near skin.

**227902.** No. 14366. 'Fuerte'-like hybrid; seeds rather large; little anise odor in leaves; no fiber apparent in flesh. Parentage probably Guatemalan and Mexican types.

**227903.** No. 14369. Fruit smooth with lenticels about as in 'Fuerte'; skin thin. Parentage probably Guatemalan and Mexican types.

**227904.** No. 14375. Fruit smooth and glossy; light green; season October in Atlixco. Parentage probably Guatemalan and Mexican types.

**227905 to 227907.** From Villa Guerrero, Mexico.

**227905.** No. 14382. Fruit black, no anthracnose; matures in April in Mexico. Parentage is probably a Mexican type.

**227906.** No. 14383. Fruit color green when mature; matures April to August in Mexico. Parentage probably a Mexican type.

**227907.** No. 14384. Fruit small, dark purple; seed fairly large; matures in April. Parentage a Mexican type.

**227908 to 227916.** Collected by N. P. Maxwell in Texas.

**227908.** Allen Selection. Mercedes. Cold hardy, salt resistant; fruit black; excellent flavor; to 5 ounces.

**227909.** 'Amidon'. Harlingen. Fruit green, almost spherical, to 12 ounces; skin thin, green.

**227910.** 'Hannam'. East of Donna. Fruit purple, elongate, to 6 ounces.

**227911.** 'Karr'. Harlingen. Fruit green, pyriform, to 14 ounces.

**227912.** 'McRill'. McAllen. Fruit light green, to 16 ounces.

**227913.** 'Pryor'. Uvalde. From a seedling tree.

**227914.** 'W. J. Selection'. San Juan. Salt resistant, very cold hardy; fruit black, pyriform, to 6 ounces.

**227915.** R No. 1. Raymondville. Vigorous, cold hardy, salt tolerant; fruit black, to 8 ounces; shy producer. A Mexican type.

**227916.** Y-6. Harlingen. Fruit green, smooth, to 6 ounces. A Mexican type.

**227917.** 'Haven'. Rio Grande Valley.

**227918 to 227926.**

From Japan. Plants collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 7, 1955.

Collected in Kyuosumi-yama, Province Awa, Chiba. Aug. 31, 1955.

**227918 to 227926—Continued**

**227918.** *CARDIANDRA ALTERNIFOLIA* Sieb. & Zucc. Hydrangeaceae.

Col. No. 405. 'Kusa-azisai'. Herbaceous plant; flowers pink with sterile rim florets; appearing from July to September.

**227919.** *CONANDRON RAMONDIODES* Sieb. & Zucc. Gesneriaceae.

Col. No. 408. 'Iwa-tabako'. Herbaceous perennial; flowers purple; flowering in May.

**227920.** *DAMNACANTHUS INDICUS* Gaertn. f. Rubiaceae.

Col. No. 406. 'Aridoshi'. Small evergreen shrub; branches spreading at right angles. From northern limit of natural distribution.

**227921.** *EUCHRESTA JAPONICA* Benth. Fabaceae.

Col. No. 407. 'Miyama tobira'. Small evergreen shrub; leaves round, trifoliate, shiny; rootstock rhizomatous.

**227922.** *HYDRANGAEA INVOLUCRATA* Sieb. Hydrangeaceae.

Col. No. 404. 'Tama-azisai'.

**227923.** *PRUNUS SPINULOSA* Sieb. & Zucc. Amygdalaceae.

Col. No. 400. 'Rinboku'. Evergreen tree to 15 meters high; leaves coarse; serrations sharp.

**227924.** *RHODODENDRON KIYOSUMENSE* Makino Ericaceae.

Col. No. 401. Flowers purple.

**227925.** *SYMPLOCOS PRUNIFOLIA* Sieb. & Zucc. Symplocaceae. **Sweetleaf**

Col. No. 402. 'Kurobai'. Evergreen tree, to 7 meters high; flowers white, appearing in May.

**227926.** *VACCINIUM BRACTEATUM* Thunb. Vacciniaceae. **Oriental blueberry**

Col. No. 403. 'Shashanbo'. Evergreen shrub, to 5 meters high.

**227927.** *LEPTOCHLOA DUBIA* (H. B. K.) Nees Poaceae.

**Green sprangletop.**

From Libya. Seeds presented by the United States Operations Mission to Libya, Tripoli. Received Sept. 7, 1955.

**227928.** *DIOSCOREA* sp. Dioscoreaceae.

From Costa Rica. Collected by Bernice G. Schubert, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Aug. 23, 1955.

Col. No. 939. Pan American Highway. Aug. 9, 1955. Elevation 9,000 feet. Vine with large horizontal tubers, to 8 inches below ground surface.

**227929 to 227936.** *CITRUS SINENSIS* (L.) Osbeck Rutaceae.

**Sweet orange.**

From Israel. Budwood presented by the Division of Plant Protection, Tel Aviv. Received Sept. 8, 1955.

'Shamouti'. Collected by the Rehovot Agricultural Research Station, Rehovot.

**227929.** No. 1. Tree 22 years old. **227933.** No. 1505.

**227930.** No. 2. Tree 22 years old. **227934.** No. 1517.

**227931.** No. 1426. **227935.** No. 1519.

**227932.** No. 1437. **227936.** No. 1520.

**227937 and 227938.** *ZEA MAYS* L. Poaceae.

**Corn.**

From the Canary Islands. Seed presented by the Servicio Agrícola Seragri, Las Palmas. Received Sept. 8, 1955



**227937 and 227938—Continued**

227937. 'Lanzarote'.

227938. 'Sur de Gran Canaria'.

**227939 to 227944. ORYZA SATIVA L. Poaceae.****Rice.**

From India. Seed presented by the Rice Specialist, Bihar, Sabour. Received Sept. 9, 1955.

227939. 16 BK (BR 5). 'Motisal'. Local variety, Shahabad District.

227940. 36 BK (BR 7). 'Kessore'. Local variety, Bhagalpur District.

227941. 88 BK (BR 6). 'Dahia'. Resembles 16 BK except the awns show slight development.

227942. 115 BK (BR 3). 'Dahia'. An early-ripening type. Aman paddy.

227943. 141 BK (BR 4). 'Jhulansar'. Local variety, Mohghyr District.

227944. 498-2A (BR 8). 'Kessore'. Bhagalpur District.

**227945 and 227946. TRITICUM AESTIVUM L. Poaceae. Common wheat.**

From Israel. Seeds presented to the Agricultural Experiment Station, Neve-Yaar. Received Sept. 9, 1955.

227945. No. 51.J.

227946. No. 150.J.

**227947 to 227963. TRITICUM AESTIVUM L. Poaceae. Common wheat.**

From Egypt. Seed presented by the Ministry of Agriculture, Giza. Received Sept. 12, 1955.

227947. Line 1289-2196.

227956. Line 1303-2483.

227948. Line 1290-2256.

227957. Line 1304-2536.

227949. Line 1290-2258.

227958. Line 1304-2581.

227950. Line 1290-2268.

227959. Line 1323-2618.

227951. Line 1291-2321.

227960. Line 1323-2621.

227952. Line 1291-2341.

227961. Line 1331-2636.

227953. Line 1291-2343.

227962. Line 1331-2638.

227954. Line 1293-2391.

227963. Line 1342-2651.

227955. Line 1293-2403.

**227964. (Undetermined.)**

From Iran. Bulbs collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 12, 1955.

Col. No. 15629. Five miles south of Khonsu, Ostan. Aug. 28, 1955. Elevation 9,000 feet. Ornamental perennial; flowers beautiful, red, spring; leaves black tipped.

**227965. MUSSAENDA PHILIPPICA A. Rich. Rubiaceae.**

From the Philippines. Plants presented by the Bureau of Plant Industry, Manila. Received Sept. 14, 1955.

**227966. BETA LOMATOGONA Fisch. & Mey. Chenopodiaceae. Beet.**

From Iran. Seed presented by K. G. Khadivi, Sugar Beet Seeds Institute, Tehran. Received Sept. 14, 1955.

Growing in the province of Azerbaijan.



- 227967. RAUVOLFIA HETEROPHYLLA Willd. Apocynaceae Devilpepper.**  
 From Costa Rica. Seeds collected by Bernice G. Schubert, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 15, 1955.  
 Col. No. 903. Experiment farm near Barranca. July 22, 1955.
- 227968 to 227971. THEOBROMA CACAO L. Sterculiaceae. Cacao.**  
 From Ecuador. Budwood presented by the Servicio Cooperativo Inter-Americano de Agricultura, Guayaquil. Received Sept. 15, 1955.  
 227968. 'Cacao Nacional'. 227970. EET-11-SIA-6.  
 227969. EET Clon 274-ICS-1. 227971. S.C.A.-12 EET 110.
- 227972. GOSSYPIUM (hybrid). Malvaceae. Cotton.**  
 From England. Seed presented by Deltapine, Limited, Liverpool. Received Sept. 16, 1955.  
 Grown in Rarotonga and the Cook Islands.
- 227973. PHILADELPHUS sp. Hydrangeaceae.**  
 From France. Plants and cuttings presented by S. L. Emsweller, Ornamental Crops Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 16, 1955.
- 227974 to 228008.**  
 From Japan. Plants and bulbs collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 16, 1955.
- 227974. ABIES SIKOKIANA Nakai Pinaceae. Fir.**  
 Col. No. 431. 'Shikoku-shirabe'. Foot of Mount Ishidzuchi. Elevation about 800 meters. Tree to 15 meters high; leaves glaucous, white underneath; cones short, purple.
- 227975. BETULA SHIKOKIANA Nakai Betulaceae. Birch.**  
 Col. No. 435. 'Shikoku-shirabe'. Foot of Mount Ishidzuchi. Elevation 800 meters. Tree to 8 meters high; bark exfoliating.
- 227976. DENDROPANAX sp. Araliaceae.**  
 Col. No. 412. 'Kakure-miro'. Igahi, near Matsuyama, Ehime Prefecture, Shikoku. Evergreen tree, to 6 meters high; leaves trifid on sterile branches, entire on fertile branches.
- 227977. DIOSCORIA QUINQUELOBA Thunb. Dioscoreaceae. Yam.**  
 Col. No. 411. 'Mimiji Tokoro'. Igahi, near Matsuyama, Ehime Prefecture, Shikoku. Leaves with 7 lobes; flowers bright orange; tubers large, horizontal.
- 227978. HYDRANGAEA PANICULATA Siebold Hydrangeaceae. Panicle hydrangea.**  
 Col. No. 428. 'Nori-utrugi'. Foot of Mount Ishidzuchi. Elevation about 800 meters. Shrubby tree, to 3 meters high; sterile bracts, white to rose-colored.
- 227979. ILEX CRENATA Thunb. Aquifoliaceae. Japanese holly.**  
 Col. No. 420. 'Inu-tsugi'. Foot of Mount Ishidzuchi. Elevation 800 meters. small narrow leaves.
- 227980. ILEX PEDUNCULOSA Miq. Longstack holly.**  
 Col. No. 421. 'Soyogo'. Foot of Mount Ishidzuchi. Elevation 800 meters. Shrubby tree; leaves large, wavy margins; fruit red, on long stalks.
- 227981 to 227994. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. Sweetpotato.**  
 227981. 'Korushirazu'.  
 227982. 'Norin No. 1'. Chiba Farm, National Kanto-Tosan Agricultural Experiment Station, Medium-maturing variety; for human consumption.

**227974 to 228008—Continued****227981 to 227994—Continued**

- 227983.** 'Norin No. 2'. Kagoshima Farm, National Kyushu Agricultural Experiment Station. Medium to late-maturing variety; used for industrial and food purposes.
- 227984.** 'Norin No. 3'. Kagoshima Farm, National Kyushu Agricultural Experiment Station. Medium-late variety; grown for food, industrial and fodder uses.
- 227985.** 'Norin No. 4'. Chiba Farm, National Kanto-Tosan Agricultural Experiment Station. Medium-maturing variety; used as food.
- 227986.** 'Norin No. 5'. Chiba Farm, National Kanto-Tosan Agricultural Experiment Station. Early-maturing variety; used as food.
- 227987.** 'Norin No. 6'. Chiba Farm, National Kanto-Tosan Agricultural Experiment Station. Medium-early maturing variety; used for food and fodder.
- 227988.** 'Norin No. 8'. Chiba Farm, National Kanto-Tosan Agricultural Experiment Station. Medium-maturing variety; used for fodder.
- 227989.** 'Norin No. 10'. Chiba Farm, National Kanto-Tosan Agricultural Experiment Station. Medium-late variety; used as food.
- 227990.** 'Norin No. 11'. Chiba Farm, National Kanto-Tosan Agricultural Experiment Station. Medium-late maturing variety; used as food; high resistance to black rot.
- 227991.** 'Norin No. 13'. Chiba Farm, National Kanto-Tosan Agricultural Experiment Station. Medium-early ripening variety; used for fodder.
- 227992.** 'Norin No. 14'. Chiba Farm, National Kanto-Tosan Agricultural Experiment Station. Medium-early maturing; for food and industrial uses.
- 227993.** 'Okinarasari'.
- 227994.** 'Shirosengan'.
- 227995.** *LYCORIS RADIATA* (L'Her.) Herbert Amaryllidaceae. **Shorttube lycoris.**  
Col. No. 417. 'Higan-bana'. Igahu near Matsuyama, Ehime Prefecture, Shikoku. Flowers in umbels, dark red; scape 30 cm. high.
- 227996.** *MAGNOLIA VERECUNDA* Koidz. Magnoliaceae.  
Col. No. 436. 'O-yama-rengé'. Foot of Mount Ishidzuchi. Tree small; leaves ovate; flowers white, pendent.
- 227997.** *PHILADELPHUS SHIKOKIANUS* Nakai Hydrangeaceae. **Mockorange.**  
Col. No. 418. 'Khikoku Utsugi'. Foot of Mount Ishidzuchi. Elevation 800 meters. Deciduous shrub; flowers white, early to mid-May.
- 227998.** *RAPANEA NERIIFOLIA* Mez. Myrsinaceae.  
Col. No. 414. 'Taimintachibana'. Igahi, near Matsuyama, Ehime Prefecture, Shikoku. Tall evergreen shrub; leaves lanceolate; flowers inconspicuous.
- 227999.** *RHODODENDRON PENTAPHYLLUM* Maxim. Ericaceae. **Fiveleaf azalea.**  
Col. No. 429. 'Akibono Trutsuji'. Foot of Mount Ishidzuchi. Elevation 800 meters. Shrub to 3 meters high; flowers pale pink.
- 228000.** *RHODODENDRON QUINQUEFOLIUM* Biss. & Moore **Cork azalea.**  
Col. No. 422. 'Shiro-yashio'. Foot of Mount Ishidzuchi. Elevation 1,500 meters. Deciduous shrub to 3 meters high; flowers pure white.
- 228001.** *RHODODENDRON TSCHONOSKII* Maxim. **Tschonoskii azalea.**  
Col. No. 430. 'Kome-tsutsuji'. Foot of Mount Ishidzuchi. Elevation 800 meters. Spreading shrub; leaves small, hairy, broad-lanceolate; flowers small, white.
- 228002 and 228003.** *RHODODENDRON WEYRICHII* Maxim. **Weyrichii azalea.**  
**228002.** Col. No. 441. 'Ontsutsuji'. Foot of Mount Ishidzuchi.

**227974 to 228008—Continued****228002 and 228003—Continued**

**228003.** Col. No. 423. 'Ontsutsumi'. Foot of Mount Ishidzuchi. Elevation 1,600 meters. Shrub to 3 meters high; flowers brick-red.

**228004.** RHODODENDRON sp.

Col. No. 440. 'Kome-tsutsumi'. Foot of Mount Ishidzuchi. Small prostrate shrub; leaves ovate; flowers white, small.

**228005.** ROSA ONOEI Makino Rosaceae.**Rose.**

Col. No. 415. 'Yabu-ibara'. Igahi, near Matsuyama, Ehime Prefecture, Shikoku. Flowers white, to 4 centimeters across.

**228006.** RUBUS sp. Rosaceae.

Col. No. 433. Foot of Mount Ishidzuchi. Elevation 800 meters. Subalpine, low-growing, prostrate plant; fruits small, red.

**228007.** SARCANDRA GLABRA (Makino) Nakai Chloranthaceae.

Col. No. 416. 'Senryo'. Igahi, near Matsuyama, Ehime Prefecture, Shikoku. Shrub small, to 1 meter high; leaves opposite, coarsely serrate; flowers in spikes. inconspicuous; berries bright red.

**228008.** VIBURNUM FUCATUM Blume Caprifoliaceae.**Forked viburnum.**

Col. No. 425. 'Okame-noki'. Foot of Mount Ishidzuchi. Elevation about 800 meters. Deciduous, shrubby tree, to 3 meters high; leaves almost orbicular; flowers white; fruits first red, then black.

**228009 to 228011.**

From Japan. Budwood presented by the Demonstration Garden of Trees and Shrubs. Angyo, Saitama Prefecture. Received Sept. 16, 1955.

**228009.** PRUNUS SUBHIRTILLA Miq. Amygdalaceae.**Higan cherry.**

'Sendai-shidare'.

**228010 and 228011.** PRUNUS SERRULATA Lindl.**Oriental flowering cherry.**

**228010.** 'Fukenzo-shidare'.

**228011.** 'Kiku-shidare'.

**228012 to 228021.** PYRUS COMMUNIS L. Malaceae.**Pear.**

From Japan. Propagating wood presented by the National Agricultural Research Institute, Hiratsuka, Kanagawa. Received Sept. 19, 1955.

**228012 to 228014.** Highly resistant to black rot.

**228012.** 'Doetsu'. ('Nijiseiki' × 'Doetsu').

**228013.** 'Ishiwase'. ('Nijiseiki' × 'Doetsu').

**228014.** 'Kikusue'.

**228015.** 'Kumoe'. ('Ishiwase' × 'Yagumo').

Russet-skin.

**228016.** 'Nijiseiki'.**228017.** 'Seigyoku'.**228018.** 'Shinko'. ('Nijiseiki').

Seedling.

**228019.** 'Shinseiki'. ('Nijiseiki' × 'Cho-ju-ro').**228020.** 'Suesee'. ('Kikusui' × 'Yakumo').

Early, green skin.

**228021.** 'Yagumo'. ('Nijiseiki' × 'Akapo').



**228022. COFFEA ARABICA L. Rubiaceae.****Arabian coffee.**

From Nyasaland. Seeds presented by the Department of Agriculture, Bvumbwe Tung Agricultural Experiment Station, Limbe.  
Received Sept. 20, 1955.

Local selection.

**228023 to 228043.**

From Japan. Seeds collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 20, 1955.

Collected in Sept. 1955.

**228023. AESCULUS TURBINATA Blume Aesculaceae. Japanese horsechestnut.**

Col. No. 419. 'Tochi'. Foot of Mount Ishidzuchi. Elevation 2,600 feet. Tree to 4 feet high; flower panicles upright; color whitish; prefers damp situation.

**228024. CAMELLIA JAPONICA L. Theaceae. Common camellia.**

Col. No. 447. 'Tsubake'. Korakuen Garden, Okayama-shi.

**228025 and 228026. CAMELLIA SASANQUA Thunb. Sasanqua camellia.**

228025. Col. No. 438. 'Sazanka'. Kotohira-cho, Kagawa Prefecture.

228026. Col. No. 448. 'Sazanka'. Korakuen Garden, Okayama-shi.

**228027. CATALPA OVATA Don Bignoniaceae. Chinese catalpa.**

Col. No. 410. 'Kisasage'. Matsuyama Castle, Matsuyama. Tree to 25 feet high; leaves cordate; pods slender.

**228028. DIOSCOREA TOKORO Makino Dioscoreaceae. Yam.**

Col. No. 413. Igahi, near Matsuyama, Ehime Prefecture, Shikoku.

**228029. EURYA JAPONICA Thunb. Theaceae.**

Col. No. 443. 'Hisakaki'. Foot of Mount Ishidzuchi. Elevation 2,600 feet. Small evergreen tree; leaves ovate; flowers pale yellow, small; fruits black.

**228030. FAGUS CRENATA Blume Fagaceae. Beech.**

Col. No. 424. 'Buna'. Foot of Mount Ishidzuchi. Elevation 2,600 feet. Tree to 65 feet high; trunk smooth, bark gray; leaves ovate; fruits edible.

**228031. ILEX GENICULATA Maxim. Aquifoliaceae. Droophead holly.**

Col. No. 426. 'Furin-umenodoki'. Foot of Mount Ishidzuchi. Elevation 2,600 feet. Deciduous tree; branches pendant; fruits red.

**228032. ILEX ROTUNDA Thunb. Holly.**

Col. No. 445. 'Kuroganemochi'. Korakuen Garden, Okayama-shi. Evergreen tree to 8 feet high; leaves ovate, thick, entire; fruits red.

**228033. NANDINA DOMESTICA Thunb. Berberidaceae.**

Col. No. 439. 'Nanten'. Kotochira-cho, Kagawa Prefecture.

**228034. PIERIS JAPONICA (Thunb.) G. Don Ericaceae. Japanese pieris.**

Col. No. 446. 'Asebi'. Korakuen Garden, Okayama-shi.

**228035. QUERCUS GLANDULIFERA Blume Fagaceae. Glandbearing oak.**

Col. No. 437. 'Konara'. Foot of Mount Ishidzuchi. Elevation 2,600 feet. Tree to 65 feet high.

**228036. QUERCUS GLAUCA Thunb. Blue Japanese oak.**

Col. No. 449. 'Arakashi'. Korakuen Garden, Okayama-shi. Evergreen tree to 48 feet high; leaves coarsely serrate; acorns small.

**228037. RHODODENDRON OBTUSUM var. KAEMPFERI (Planch.) Wilson Ericaceae. Torch azalea.**

Col. No. 442. 'Yama-tsutsuji'. Foot of Mount Ishidzuchi.



**228023 to 228043—Continued**

**228038.** RHODODENDRON WEYRICHII Max. **Weyrichii azalea.**

Col. No. 441. Foot of Mount Ishidzuchi.

**228039.** SASA ISHIZUCHIANA Makino Poaceae. **Bamboo.**

Col. No. 427. 'Ishizuchi sasa'. Top of Mount Ishidzuchi. Elevation 6,400 feet. Plant to 4 feet high; leaves dark green, shiny.

**228040.** SORBUS COMMIXTA Hedl. Malaceae. **Korean mountain-ash.**

Col. No. 434. 'Nana Kanado'. Top of Mount Ishidzuchi. Elevation 6,400 feet. Tree to 13 feet high; fruits in umbels, red.

**228041.** VACCINIUM CILIATUM Thunb. Vacciniaceae. **Blueberry.**

Col. No. 444. 'Arage-na-tsu haze'. Foot of Mount Ishidzuchi. Elevation 2,600 feet. Small shrub; fruits medium size, black.

**228042.** VACCINIUM sp.

Col. No. 432. Foot of Mount Ishidzuchi. Elevation 2,600 feet. Shrub to 8 inches high; fruit on small peduncle.

**228043.** VIBURNUM FURCATUM Blume Caprifoliaceae. **Forked viburnum.**

Col. No. 425. Foot of Mount Ishidzuchi. Elevation 2,600 feet.

**228044 to 228065.** GLYCINE MAX (L.) Merr. Fabaceae. **Soybean.**

From Japan. Seeds obtained by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 21, 1955.

**228044 to 228063.** From K. Matsuoka, Shikoku Agricultural Experiment Station

**228044.** 'Aka-nita'. **228054.** 'Natsu Daizu'.

**228045.** 'Ao-ki-mame'. **228055.** 'No-ki No. 1'.

**228046.** 'Awashima Zairai'. **228056.** 'Oita Akidaizu'.

**228047.** 'Hana Shirazu'. **228057.** 'O-no Daizu'.

**228048.** 'Hirochima Kuro-daizu'. **228058.** 'O-ura'.

**228049.** 'Ka-cho-tuba'. **228059.** 'Shimatsu-ura'.

**228050.** 'Kino-shita'. **228060.** 'Shiro Dai-hachilin'.

**228051.** 'Ko-mungo Daizu'. **228061.** 'Shiro-daizu No. 3'.

**228052.** 'Kochi Akidaizu'. **228062.** 'Shiro-hanasaki No. 1'.

**228053.** Manchurian native. **228063.** 'Tamana Zairai'.

**228064.** 'Meguro No. 1'. Nematode resistant.

From Aomori Prefecture Agricultural Experiment Station, Aomori.

**228065.** 'Yamaguchi-white No. 1'. 'Yamaguchi-shiro'.

From Daizu-Ichigo.

**228066 and 228067.** GOSSYPIUM (hybrids). Malvaceae. **Cotton.**

From Argentina. Seeds presented by the Estacion Experimental, Puerto Peron, Pena Province. Received Sept. 22, 1955.

**228066.** 'Saenz Pena No. 61'.

**228067.** 'Saenz Pena No. 85'.

**228068 to 228071.** TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

From Thailand. Seeds presented by the United States Operations Mission to Thailand, Bangkok. Received Sept. 22, 1955.

Originally collected at Taichung, Taiwan.

**228068.** 'Taichung No. 2'. **228070.** 'Taichung No. 31'.

**228069.** 'Taichung No. 29'. **228071.** 'Taichung No. 32'.

**228072 and 228073. COFFEA ARABICA L. Rubiaceae. Arabian coffee.**

From Brazil. Seeds presented by the United States Operations Mission to Brazil, Rio de Janeiro. Received Sept. 22, 1955.

**228072.** 'Caturra Amarelo'.

**228073.** 'Mundo Novo'.

**228074 and 228075.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 22, 1955.

**228074.** QUERCUS sp. Fagaceae.

Col. No. 15709. Twenty-five miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 6,000 feet. Second growth from cut trees.

**228075.** QUERCUS sp.

Col. No. 15799. Fifty-four miles east of Gorgan. Sept. 15, 1955. Spreading tree to 30 feet high.

**228076 to 228148.**

From Japan. Obtained by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 22, 1955.

Unless otherwise noted, material received as plants.

**228076 to 228081.** FRAGARIA (hybrids). Rosaceae. **Strawberry.**

From the Ministry of Agriculture and Forestry Research Branch, Special Products Section, Tokyo.

**228076.** 'Derby'. **228079.** 'Marshall'.

**228077.** 'Fukuba'. **228080.** 'Oshima'.

**228078.** 'Haikaro'. **228081.** 'Victoria'.

**228082.** CITRUS NIPPOKOREANA T. Tanaka Rutaceae.

From the Summer Citrus Experiment Station, Hagi City, Yamaguchi. Sept. 12, 1955.

**228083 to 228088.** From Chiba University, Chiba Prefecture. Sept. 13, 1955.

**228083.** PINUS DENSIFLORA Sieb. & Zucc. Pinaceae. **Japanese red pine.**

'Janome'. Needles white striped.

**228084.** PINUS THUNBERGII Parl. **Japanese black pine.**

'Torafu'. Needles yellow tipped.

**228085.** CRYPTOMERIA JAPONICA var. ARAUCARIOIDES Sieb. Pinaceae.

**228086 and 228087.** CRYPTOMERIA JAPONICA (L. f.) D. Don **Common cryptomeria.**

**228086.** 'Mejilo-sugi'.

**228087.** 'Ongon-sugi'.

**228088.** THUJOPSIS DOLABRATA (L. f.) Sieb. & Zucc. Pinaceae. **False-arborvitae.**

**228089.** RHODODENDRON METTERNICHII Sieb. & Zucc. Ericaceae. **Leatherleaf rhododendron.**

From H. Yagi, Matsuyama, Eichi Prefecture, Shikoku. Sept. 12, 1955.

**228090.** PUNICA GRANATUM L. Punicaceae. **Pomegranate.**

From K. Nagao, Niitsu, Niigata. Sept. 12, 1955. Dwarf; flowers double, orange.

**228091 to 228093.** From the Ministry of Agriculture and Forestry, Tokyo. Received Sept. 13, 1955.

**228091.** LIGUSTRUM JAPONICUM var. ROTUNDIFOLIUM Blume Oleaceae. **Roundleaf Japanese privet.**

## 228076 to 228148—Continued

## 228091 to 228093—Continued

228092. *LILIUM HENRYI* Baker Liliaceae. Henry lily.  
(Bulbs.)

228093. *LYCORIS RADIATA* (L'Her.) Herb. Amaryllidaceae. Shorttube lycoris.  
'Alba'.

228094. *CRYPTOMERIA JAPONICA* (L. f.) D. Don Pinaceae. Common cryptomeria.

From the Demonstration Garden of Trees and Shrubs, Angyo, Saitama Prefecture. Sept. 13, 1955. Holds its green color well during winter. (Plants and cuttings.)

228095 to 228102. *CHRYSANTHEMUM* sp. Asteraceae.

From the Takii Seed Company, Kyoto. Sept. 12, 1955.

228095. 'Fukukumo'. Pink. 228099. 'Shin-mi-sono'. Purple.

228096. 'Hino-maru'. Pink. 228100. 'Shu-o-kan'.

228097. 'Kin-byo-bu'. Yellow. 228101. 'Tai-go-kuden'.

228098. 'Kin-kazan'. Bronze. 228102. 'Tsukasa'.

228103 to 228118. *RHODODENDRON* sp. Ericaceae.

From Toshigi Ken Satsuki Kai, Sumiyashi-cho, Utsunomiya. Received Sept. 12, 1955.

228103. 'Ban-ka'. 228111. 'Kusu-dame'.

228104. 'Ban-ko'. 228112. 'Matsuname'.

228105. 'Hei-ua' (4X). 228113. 'Rei-getsu'.

228106. 'Homare-no-hana' (4X). 228114. 'Seiko-no-tsuki'.

228107. 'Ka-getsu'. 228115. 'Shin-nyo-no-hikare'.

228108. 'Ki-ko-shi'. 228116. 'Shin-nyo-no-tsuki'.

228109. 'Kin-zai'. 228117. 'Soho'.

228110. 'Kotobuki'. 228118. 'Tai-hei'.

228119. *MENTHA ARVENSIS* var. *PIPERASCENS* Makino Menthaceae. Japanese mint.

'Manyo'. From the Hokkaido Agricultural Experiment Station, Kitami, Hokkaido.

228120. *DIOSPYROS KAKI* L. Diospyraceae. Oriental persimmon.

Col. No. 86. From Saiko University, Kyoto. June 9, 1955. Dense-growing, ornamental; pistillate.

228121. *EPIMEDIUM SAGITTATUM* Baker Berberidaceae.

Col. No. 138. From Kobe Experimental Forest, Kobe. June 14, 1955. Low prostrate shrub; ground-cover.

228122. *LAGERSTROEMIA INDICIA* L. Lythraceae. Crapemyrtle.

Col. No. 409. 'Shirabana-no-hyaku-jikko'. From a garden at Matsuyama, Shikoku, Sept. 6, 1955. Flowers white.

228123. *MAACKIA AMURENSIS* Rupr. Fabaceae. Amur maackia.

Col. No. 81. 'Shidare-enju'. From Saiko University, Kyoto. June, 1955. Weeping.

228124. *TRIPETALEIA PANICULATA* Sieb. & Zucc. Ericaceae.

Col. No. 136. From Rokko-zan, near Kobe. June 14, 1955. Woody shrub.



**228076 to 228148—Continued**

**228125 to 228128.** From the Horticultural Field Station, Miimachi, Kurume. Sept. 12, 1955.

**228125.** *OSMANTHUS HETEROPHYLLUS* (D. Don) P. S. Green Oleaceae. Variegated.

**228126.** *OSMANTHUS FORTUNEI* Carr.  
Variegated.

**228127 and 228128** *CRYPTOMERIA JAPONICA* (L. f.) D. Don Pinaceae.  
**Common cryptomeria.**

**228127.** 'Okino-sugi'. Dwarf; branch tips white.

**228128.** 'Mejiro-sugi'.

**228129 to 228148** From Chinka Garden, Angyo, Saitama Prefecture. Sept. 13, 1955.

**228129 to 228138.** *CAMELLIA JAPONICA* L. Theaceae. **Common camellia.**

**228129.** 'Ara-jishi'. Pink with white blotch; very early.

**228130.** 'Bokuhan'. Pink with white center; anemone type.

**228131.** 'Hatsu-arashi'. White, early.

**228132.** 'Karaito'. Pink, semi-double; cold hardy.

**228133.** 'Komyo'. Deep pink, single; midseason.

**228134.** 'Kuro-tsubaki'. Dark red.

**228135.** 'Shibori-otome'. White, pink striped; full double.

**228136.** 'Some-kawa'. White with pink stripes; full double.

**228137.** 'Tagoto-no-tsuki'. White, single; midseason.

**228138.** 'Tobiri-otome'. White, with pink stripes; full double.

**228139 to 228148.** *CAMELLIA SASANQUA* Thunb. **Sasanqua camellia.**

**228139.** 'Beni-suzume'. Pink, small; midseason.

**228140.** 'Ginryu'. White with blush pink; double.

**228141.** 'Hana-daijin'.

**228142.** 'Kan-tsubaki'.

**228143.** 'Kara-koromo'. Red, double, early.

**228144.** 'Kinka-zan'. Light pink, irregular and fluted petals.

**228145.** 'Kyo-nishiki'. White, with pink stripes, single, midseason.

**228146.** 'Niarumi-gata'. Pink, single, irregular, center large.

**228147.** 'Sanga-no-tsu'. Pink, with white spots, single, early.

**228148.** 'Yae-gasumi'. Blush pink, large double.

**228149.** *JUGLANS REGIA* L. Juglandaceae. **Persian walnut.**

From California. Plants growing at the United States Plant Introduction Station, Chico. Numbered Sept. 26, 1955.

From P. I. 125195. Tree escapes spring frost; bears heavily; nuts mature early; valuable as a parent.

**228150 to 228183.**

From Iowa. Seeds received by the United States Regional Plant Introduction Station, Ames.

Presented by the Union of Soviet Socialist Republics' farm delegation of 1955. Numbered Sept. 27, 1955.



**228150 to 228183—Continued**

- 228150 and 228151.** LOTUS CORNICULATUS L. Fabaceae. **Birdsfoot trefoil.**  
**228150.** No. 27113. 'Moscow 287'.  
**228151.** No. 27149. 'Kubanian 44'.
- 228152.** MEDICAGO FALCATA L. Fabaceae. **Yellow-flowered alfalfa.**  
 No. 22506. 'Yellow Kuban'.
- 228153.** MEDICAGO SATIVA L. **Alfalfa.**  
 No. 22603. 'Slavonic 31'.
- 228154.** ONOBRYCHIS TRANSCAUCASICA Grossh. Fabaceae.  
 No. 16616. Received as *O. antasiatica*.
- 228155.** ONOBRYCHIS ARENARIA DC. **Sandy esparcet.**  
 No. 19220.
- 228156.** ONOBRYCHIS VICIAEFOLIA Scop. **Sainfoin.**  
 No. 16566.
- 228157.** TRIFOLIUM HYBRIDUM L. Fabaceae. **Alsike clover.**  
 No. 27245. 'Belsyarsk'.
- 228158 to 228162.** TRIFOLIUM PRATENSE L. **Red clover.**  
**228158.** No. 24631. 'Midlerussian'.  
**228159.** No. 26324. 'Krasnoufimsk 523'.  
**228160.** No. 27612. 'Zazersk'.  
**228161.** No. 27618. 'Tolmachsk'.  
**228162.** No. 30134. 'Pyshminsk'.
- 228163.** TRIFOLIUM REPENS L. **Whiteclover.**  
 No. 27799. 'Ygevsk 4'.
- 228164 to 228183.** ZEA MAYS L. Poaceae. **Corn.**  
 Local varieties.
- 228164 and 228165.** Rice type.  
**228164.** No. 5064.  
**228165.** No. 7183.
- 228166 to 228176.** Flint type.  
**228166.** No. 1628. **228172.** No. 8921.  
**228167.** No. 1630. **228173.** No. 10747.  
**228168.** No. 4905. **228174.** No. 11221.  
**228169.** No. 5010. **228175.** No. 11305.  
**228170.** No. 7792. **228176.** No. 11327.  
**228171.** No. 8084.
- 228177 to 228181.** Tooth-shaped type.  
**228177.** No. 7803. **228180.** No. 10712.  
**228178.** No. 8083. **228181.** No. 10749  
**228179.** No. 9100. (Hybrid.)
- 228182 and 228183.** Sugar type.  
**228182.** No. 1577.  
**228183.** No. 7086. 'Early pearl'.

**228184 to 228202. CAMELLIA RUSTICANA Honda Theaceae.**

From Japan. Scions collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 27, 1955. Grown at Niigata.

228184. 'Tsugawa'. No. 1. Flowers red, single.  
 228185. 'Yamaya'. No. 2. Flowers purplish red.  
 228186. 'Yuki-shiro'. No. 3. Flowers white, single.  
 228187. 'Yoshida'. No. 4. Flowers red, single, large.  
 228188. 'Hatano'. No. 5. Flowers red, single, large.  
 228189. 'Hatano'. No. 6. Flowers red, single, large.  
 228190. 'Koshiji'. No. 7. Flowers red, single, small.  
 228191. No. 8. Flowers red, single, large.  
 228192. 'Aga'. No. 9. Flowers pink, single, occasionally appear semidouble.  
 228193. No. 10. Flowers purplish pink, incomplete anemone form.  
 228194 to 228202. Wild seedling selections.

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|-----------------|-----------------|
| 228194. No. 11. | 228199. No. 16. |
| 228195. No. 12. | 228200. No. 17. |
| 228196. No. 13. | 228201. No. 18. |
| 228197. No. 14. | 228202. No. 19. |
| 228198. No. 15. |                 |

**228203 to 228204.**

From Costa Rica. Seeds collected by Bernice Schubert, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 27, 1955.

**228203. BEGONIA MULTINERVA Liebmann. Begoniaceae.**

Col. No. 858. River trail in back of Institute Building, Turrialba. July 14, 1955. Succulent shrub.

**228204. BEGONIA ESTRELLENSIS C. DC.**

Col. No. 877. Wooded trail, Finca Moravia. July 18, 1955. Succulent vine, very extensive on tree trunks.

**228205. PANICUM TURGIDUM Forsk. Poaceae.**

From Jordan. Seed presented by Barry C. Park, Wadi. Received Sept. 27, 1955.

**228206 to 228227.**

From Greece. Seeds obtained through the Agricultural Attache, American Embassy, Athens. Received Sept. 7, 1955.

From Delvinakion, southern Epirus.

**228206 to 228218. MEDICAGO POLYMORPHA var. VULGARIS (Benth.) Shinnars Fabaceae. California burclover.**

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|----------------|-----------------|
| 228206. No. 1. | 228213. No. 8.  |
| 228207. No. 2. | 228214. No. 9.  |
| 228208. No. 3. | 228215. No. 10. |
| 228209. No. 4. | 228216. No. 11. |
| 228210. No. 5. | 228217. No. 12. |
| 228211. No. 6. | 228218. No. 13. |
| 228212. No. 7. |                 |

**228219. ONOBRYCHIS VICIAEFOLIA Scop. Fabaceae.**

**Sainfoin.**

**228206 to 228227—Continued****228220.** *TRIFOLIUM* sp. Fabaceae.

No. 1A.

**228221.** *TRIFOLIUM* sp.

No. 1.

**228222.** *TRIFOLIUM* sp.

No. 2.

**228223.** *TRIFOLIUM* sp.

No. 3.

**228224.** *TRIFOLIUM* sp.

No. 4.

**228225.** *TRIFOLIUM* sp.

No. 5.

**228226.** *TRIFOLIUM* sp.

No. 6.

**228227.** *TRIFOLIUM* sp.

No. 7.

**228228.** *TRITICUM AESTIVUM* L. Poaceae**Common wheat.**

From Germany. Seeds presented by Bayerische Landessaatzuchtanstalt Weihenstephan, Freising. Received Sept. 28, 1955.

M-1.

**228229.** *LANSIUM DOMESTICUM* Jack Meliaceae.**Langsat.**

From Thailand. Seeds presented by the United States Operations Mission, Bangkok. Received Sept. 28, 1955.

**228230.** *COFFEA ARABICA* L. Rubiaceae.**Arabian coffee.**

From Kenya. Seeds presented by the Colony and Protectorate of Kenya, Nairobi. Received Sept. 28, 1955.

K-7.

**228231.** *LUPINUS ALBUS* L. Fabaceae.**White lupine.**

From Egypt. Seed presented by the United States Operations Mission, Cairo. Received Sept. 6, 1955.

**228232 and 228233.** *LOTUS CORNICULATUS* L. Fabaceae.**Birdsfoot trefoil.**

From Italy. Seeds presented by the Stazione Sperimentale di Praticoltura, Lodi, Milan. Received Sept. 29, 1955.

**228232.** Local type.**228233.** 'Varere'.**228234 to 228236.**

From India. Seed presented by the Indian Agricultural Research Institute, New Delhi. Received Sept. 29, 1955.

**228234.** *SESBANIA BISPINOSA* (Jacq.) W. F. Wight Fabaceae.**228235 and 228236.** *SESBANIA SESBAN* (L.) Merr.**228235.** No. 1.**228236.** No. 1.W. 142.

**228237 and 228238. CITRULLUS VULGARIS Schrad. Cucurbitaceae. Watermelon.**

From Israel. Seeds presented by Plant Introduction Service, Neve-Yaar Experiment Farm, Rehovot. Received Sept. 29, 1955.

228237. 'Malali' (local variety).

228238. 'Malali' (improved form).

**228239 to 228244.**

From Japan. Obtained from the Kobe Municipal Arboretum, Kobe, by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 29, 1955.

228239. ILEX MONTANA var. MACROPODA (Miquel) Fernald Aquifoliaceae. **Holly.**

228240. ILEX SERRATA Thunb. **Finetooth holly.**

228241. ILEX SUGEROKII Maxim. **Sugeroki holly.**

228242. ILEX sp.

228243. LYONIA NEZIKII Nakai Ericaceae.

228244. RHODODENDRON RETICULATUM D. Don ex G. Don Ericaceae. **Rose azalea.**

**228245. PRUNUS sp. Amygdalaceae.**

From Japan. Seeds collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 29, 1955.

Col. No. 85. Saiko University Garden, Kyoto. Aug. 15, 1955. Tree to 15 feet high; flowers solitary, pink; fruits yellow.

**228246. THEOBROMA CACAO L. Sterculiaceae. Cacao.**

From Samoa. Fruit presented by the New Zealand Reparation Estates, Apia. Received Sept. 30, 1955.

'Lafi No. 7'.

**228247. BEGONIA LIGNESCENS Morton Begoniaceae.**

From Costa Rica. Seed collected by B. G. Schubert, Agricultural Explorer, Horticultural Crops Research Branch, Plant Introduction Section, Beltsville, Md. Received Sept. 30, 1955.

Col. No. 821. Woods near Convento River, Sonador Farm.

**228248 to 228261.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 30, 1955.

228248. COTONEASTER sp. Malaceae.

Col. No. 15713. Twenty-five miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 6,000 feet. Ornamental shrub.

228249 and 228250. CYDONIA OBLONGA Mill. Malaceae. **Common quince.**

228249. Col. No. 15140. 'Beh'. Market, Shiraz. June 30, 1955.

Elevation 5,200 feet. Cultivated locally by irrigation.

228250. Col. No. 15820. Market, Babol, Caspian Plain. Sept., 1955. Fruits very large, oblong, well-formed.

228251. FICUS sp. Moraceae.

Col. No. 15717. 'Anjir'. Twelve miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 2,000 feet. Tree dense, spreading; fruits bitter.



**228248 to 228261—Continued****228252.** *MALUS SYLVESTRIS* Mill. Malaceae.**Apple.**

Col. No. 15708. 'Sib. Tangli'. Twenty-five miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 6,000 feet. Tree small to medium-size; fruits small.

**228253 and 228254.** *MALUS SYLVESTRIS* Mill. Malaceae.**Apple.**

**228253.** Col. No. 15776. Market, Gorgan. Sept. 14, 1955. Fruits pink-cheeked; originally from Mashhad.

**228254.** Col. No. 15821. Market, Tehran. Sept., 1955. Fruits small; flavor sweet; possibly from Esfahan.

**228255.** *PRUNUS CERASUS* L. Amygdalaceae.**Sour cherry.**

Col. No. 15739. 'Albahr'. Market, Kalow, Caspian shore. Sept. 13, 1955.

**228256.** *PRUNUS MAHALEB* L.**Mahaleb cherry.**

Col. No. 15577. Dastana, Chaharmahal. Aug. 25, 1955. Elevation 6,700 feet. Small, tart type. From wild trees in Bakhtiari Mountains.

**228257.** *PRUNUS* sp.

Col. No. 15711. Twenty-five miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 6,000 feet. Wild type.

**228258.** *PYRUS* sp. Malaceae.

Col. No. 15576. Dastana, Chaharmahal. Aug. 24, 1955. Elevation 6,700 feet. Wild tree cultivated in Dastana. Fruits small; seed round; exported for oil.

**228259.** *ROSA* sp. Rosaceae.

Col. No. 15690. Gach Sar, Alborz Range. Sept. 11, 1955. Elevation 6,800 feet. Shrub densely branched, spreading; flowers white; fruits purplish.

**228260.** *ROSA* sp.

Col. No. 15802. Alborz Range, between Gorgan and Shahrud. Sept. 15, 1955. Elevation 6,200 feet. Shrub to 6 feet high.

**228261.** *RUBUS* sp. Rosaceae.

Col. No. 15718. 'Shahtot'. Twelve miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 2,000 feet. Wild blackberry forming large caney bushes.

**228262.** *MARTYNIA LUTEA* Lindl. Martyniaceae. **Yellow unicornplant.**

From Portugal. Seeds presented by the Botanic Garden, Coimbra. Received Oct. 4, 1955.

**228263.** *CAJANUS CAJAN* (L.) Druce Fabaceae.**Pigeonpea.**

From Puerto Rico. Seed presented by the Agricultural Experiment Station, Rio Piedras. Received Oct. 4, 1955.

'Gandures Kaki'.

**228264 and 228265.** *ZINNIA JUNIPERIFOLIA* A. Gray Asteraceae.

From Mexico. Seed presented by the Instituto de Investigacion de Zonas Deserticas, San Luis Potosi. Received Sept. 28, 1955.

**228264.** No. 1. South of Km. 112 on the highway San Luis Potosi-Antiguo, Morelos.

**228265.** No. 2. About 25 km. north of Charcas, San Luis Potosi.

**228266 to 228273.** *SACCHARUM* (hybrids). Poaceae.**Sugarcane.**

From Australia. Cuttings presented by the Sugar Experiment Station, Brisbane, Queensland. Received Oct. 3, 1955.

**228266.** 51 N. G. 51.**228270.** G 362.**228267.** 51 N. G. 53.**228271.** I 126.**228268.** 51 N. G. 101.**228272.** Q 36.**228269.** 51 N. G. 148.**228273.** Q 57.

**228274 to 228297.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 3, 1955.

Collected June to August, 1955.

**228274.** *AGROPYRON INTERMEDIUM* (Host.) Beauv. Poaceae.

**Intermediate wheatgrass.**

Col. No. 15561. Near Borugen, Chaharmahal. Perennial grass.

**228275.** *AGROPYRON* sp.

Col. No. 15565. Mountain southwest of Dastana, Chaharmahal. Elevation 9,500 feet. Perennial with coarse culms.

**228276.** *AGROPYRON CAESPITOSUM* Koch

**Wheatgrass**

Col. No. 15586. Twenty-five miles northeast of Shahr-Kord, Chaharmahal. Elevation 8,400 feet. Slender, bushy, xerophytic perennial; heavily browsed.

**228277.** *AGROPYRON* sp.

Col. No. 15617. Ku Rang, Chaharmahal. Elevation 8,500 feet. Perennial, to 4 feet high.

**228278.** *ASTRAGALUS* sp. Fabaceae.

Col. No. 15176. Sixteen miles northwest of Abadeh, Fars. Elevation 7,000 feet. Bushy perennial to 2 feet high.

**228279.** *ASTRAGALUS* sp.

Col. No. 15196. Eight miles west of Shahr-Kord, Bakhtiarian Country. Elevation 7,000 feet. Prostrate annual herb.

**228280.** *ASTRAGALUS* sp.

Col. No. 15238. Mountain south of Dastana, south of Shahr-Kord. Elevation 9,000 to 11,000 feet. Low, densely spreading perennial to 2 feet high.

**228281 and 228282.** *BROMUS TOMENTELLUS* Boiss. Poaceae.

**Brome.**

**228281.** Col. No. 16626. Five miles south of Khunsar, Ostan. Elevation 9,000 feet. Tufted perennial on open rocky slopes.

**228282.** Col. No. 15627. Five miles south of Khunsar, Ostan. Elevation 9,000 feet. Perennial grass.

**228283.** *CARTHAMUS TINCTORIUS* L. Asteraceae.

**Safflower.**

Col. No. 15147. 'Gorang'. Market, Shiraz. Elevation 5,200 feet. Used as bread seasoning.

**228284.** *LINUM USITAISSIMUM* L. Linaceae.

**Flax.**

Col. No. 15578. Near Shahr-Kord, Chaharmahal. Elevation 7,000 feet. Local variety; susceptible to rust.

**228285.** *LINUM* sp.

Col. No. 15172. Sixteen miles northwest of Abadeh, Fars. Elevation 7,000 Feet. Herb; browsed by sheep.

**228286.** *LOTUS CORNICULATUS* L. Fabaceae.

**Birdsfoot trefoil.**

Col. No 15214. Dastana, south of Shahr-Kord. Elevation 5,200 feet.

**228287.** *MEDICAGO SATIVA* L. Fabaceae.

**Alfalfa.**

Col. No. 15145. 'Younjina Market, Shiraz. Elevation 5,200 feet.

**228288.** *MELILOTUS OFFICINALIS* (L.) Lam. Fabaceae.

**Yellow sweetclover.**

Col. No. 15592. Kuh Rang Chaharmahal. Elevation 8,000 feet. Annual weed.

**228289.** *ONOBRYCHIS VICIAEFOLIA* Scop. Fabaceae.

**Sainfoin.**

Col. No. 15633. Golpayegan, Arak Province. Elevation 6,000 feet.

**228290.** *ORYZOPSIS* sp. Poaceae.

Col. No. 15624. Five miles south of Khunsar, Ostan. Elevation 9,000 feet. Tufted perennial; well liked by animals.

**228291.** *PHASEOLUS AUREUS* Roxb. Fabaceae.

**Mung bean.**

Col. No. 15580. Saman, Chaharmahal. Elevation 6,500 feet.

**228274 to 228297—Continued****228292.** *PISUM SATIVUM* L. Fabaceae.**Garden pea.**

Col. No. 15185. 'Gaydaneh'. Near Ghaverokh, along road to Shahr-Kord. Elevation 7,700 feet. Originally from Bavanat.

**228293.** *SECALE CEREALE* L. Poaceae.**Rye.**

Col. No. 15240. Dastana, south of Shahr-Kord. Elevation 6,800 feet. A dark-headed type.

**228294.** *TRIFOLIUM REPENS* L. Fabaceae.**Whiteclover.**

Col. No. 15600. East base of Kuhe Zard, Chaharmahal. Elevation 8,500 feet.

**228295.** *TRITICUM AESTIVUM* L. Poaceae.**Common wheat.**

Col. No. 15615. East base of Kuhe Zard, Chaharmahal. Elevation 8,500 feet. Cold resistant winter type.

**228296.** *VICIA ERVILIA* (L.) Willd. Fabaceae.**Bittervetch.**

Col. No. 15186. 'Kesen'. Near Ghaverokh along road to Shahr Kord. Elevation 7,700 feet.

**228297.** *VICIA SATIVA* L.**Common vetch.**

Col. No. 15243. 'Gharacoreh'. Dastana, south of Shahr-Kord. Elevation 6,700 feet.

**228298 and 228299.**

From India. Seed presented by the Indian Agricultural Research Institute, New Delhi. Received Oct. 4, 1955.

**228298.** *SESAMUM EKAMBARAMII* Naidu Pedaliaceae.**228299.** *SESAMUM PROSTRATUM* Retz.**228300.** *STIPA TENACISSIMA* Jusl. Poaceae.**Esparto needlegrass.**

From Algeria. Seed presented by the Service de l'Experimentation Agricole, Maison-Carree. Received Oct. 4, 1955.

**228301 to 228306.**

From Japan. Seed presented by the Kagawa Agricultural College, Mikicho, Kitagun, Kagawa Prefecture. Received Oct. 4, 1955.

**228301 to 228305.** *VICIA SATIVA* L. Fabaceae.**Common vetch.****228301.** F<sub>4</sub>-1-6.**228304.** F<sub>4</sub>-8-13.**228302.** F<sub>4</sub>-5-41.**228305.** P<sub>1</sub>-1-2.**228303.** F<sub>4</sub>-6-2.**228306.** *VICIA TETRASPERMA* (L.) Moench.**Fourseed vetch.****228307 to 228315.** *TRITICUM AESTIVUM* L. Poaceae.**Common wheat.**

From Germany. Seed presented by the Biologische Bundesanstalt für Land-und Forstwirtschaft, Berlin. Received Oct. 5, 1955.

**228307.** 'Axminster'.**228312.** 'Red Fern Ott'.**228308.** 'Carsten V'.**228313.** 'Saumur'.**228309.** 'Farm I'.**228314.** 'Sakminde'.**228310.** 'Normandie'.**228315.** 'Tu 4'.**228311.** 'Pika'.**228316 to 228319.**

From Kenya. Seeds presented by Annette Wilbois, Nairobi. Received Oct. 5, 1955.

**228316 to 228318.** *SORGHUM VULGARE* Pers. Poaceae.

**228316 to 228319—Continued****228316 to 228318—Continued**

**228316.** White. Originally from Ambovombe, Madagascar.

**228317.** Red. Originally from Madagascar.

**228318.** Red. Originally obtained from Ecole National d'Agriculture, Montpellier, France.

**228319.** *ZEA MAYS* L. Poaceae.

Corn.

Originally from Ambovombe, Madagascar.

**228320.** *TRITICUM AESTIVUM* L. Poaceae.

Common wheat.

From Italy. Seed presented by the Agricultural Attache, American Embassy, Rome. Received Oct. 11, 1955.

'Loro'. Grown in Northern Italy.

**228321 to 228329.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 7, 1955.

Collected June to September, 1955.

**228321.** *FIGUS* sp. Moraceae.

Col. No. 15828. Kerman Province. A wild type.

**228322 and 228323.** *PRUNUS AMYGDALUS* Batsch. Amygdalaceae. Almond.

**228322.** Col. No. 14976. Bavanat Valley, Fars. Elevation 7,000 to 7,500 feet.

**228323.** Col. No. 15808. Shahrud, Khorasan Province. Grafted; thin shelled.

**228324 and 228325.** *PRUNUS ARMENIACA* L. Apricot.

**228324.** Col. No. 15282. 'Zordulu'. Kermanshah. Elevation 6,000 feet. Large-fruited variety.

**228325.** Col. No. 15408. 'Gorban'. Maragheh, Azerbaijan. Elevation 6,300 feet. Local variety; fruits delicious, large, reddish tinged; pits sweet.

**228326.** *PRUNUS* sp.

Col. No. 15056. 'Bohorach'. Market Fasa, Fars. Limestone slopes. Tree used locally as understock for cultivated varieties. Seeds exported.

**228327.** *PRUNUS* sp.

Col. No. 15071. 'Arjan'. Market Estavanat, Fars. Elevation 5,900 feet. Trees used locally as understock for cultivated varieties. Seeds exported for oil content.

**228328.** *PRUNUS* sp.

Col. No. 15073. 'Arjan'. Seven miles east of Sarvestan, Fars. Elevation 6,000 feet. Shrubs low, spreading, spiny; bark gray; varying in habit and seed types. Used as understock.

**228329.** *RUBUS* sp. Rosaceae.

Col. No. 15302. Forty miles north of Kermanshah along road to Sanandaj. Fruits sweet.

**228330 to 228332.** *PIPER NIGRUM* L. Piperaceae. Black pepper.

From Thailand. Cuttings presented by the Agricultural Division, International Cooperation Administration, Bangkok. Received Sept. 7, 1955.

**228330.** 'Ban Kaew'.

**228331.** 'Pranztee'.

**228332.** 'Native'.



**228333 to 228373.—Continued**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 7, 1955.

Collected July and August, 1955, unless otherwise noted.

**228333.** *AEGILOPS CYLINDRICA* Host. Poaceae. **Joined goatgrass.**

Col. No. 15340. Thirty miles north of Sanandaj, Kurdistan. Elevation 6,700 feet. Annual; heads slender, long; about 1 foot high.

**228334.** *AELUROPUS LITTORALIS* (Gouan) Parl. Poaceae.

Col. No. 15263. Ten miles south of Esfahan along road to Shiraz. Cespitose perennial.

**228335.** *ALLIUM CEPA* L. Liliaceae. **Onion.**

Col. No. 15372. Maragheh, Azerbaijan. Elevation 6,300 feet. Best local variety.

**228376.** *ALLIUM* sp.

Col. No. 15457. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. In moist meadow.

**228337.** *AVENA* sp. Poaceae.

Col. No. 15293. Forty miles north of Kermanshah along road to Sanandaj. Elevation 6,500 feet. Vigorous, large-seeded, wild.

**228338.** *AVENA* sp.

Col. No. 15482. Sarab, Azerbaijan. Elevation 6,500 feet. Small-stemmed, to 3 feet high.

**228339.** *AVENA* sp.

Col. No. 15545. Northeast slope of Kuhe Sabalan, Azerbaijan. Elevation 9,500 feet. Plants to 3 feet high.

**228340.** *BETA VULGARIS* L. Chenopodiaceae. **Common beet.**

Col. No. 15383. Market, Maragheh, Azerbaijan. Elevation 6,300 feet.

**228341.** *CANNABIS SATIVA* L. Moraceae. **Hemp.**

Col. No. 15387. 'Shah Daneh'. Market Maragheh, Azerbaijan. Elevation 6,300 feet. Low-growing variety; seed used for bird food and as a source of oil.

**228342.** *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. **Watermelon.**

Col. No. 15398. Market Maragheh, Azerbaijan. Elevation 6,300 feet.

**228343.** *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**

Col. No. 15384. 'Harbusa'. Market Maragheh, Azerbaijan. Elevation 6,300 feet. Melon large, oblong; cultivated by irrigation; matures in midsummer.

**228344.** *CUCUMIS SATIVUS* L. Cucurbitaceae. **Cucumber.**

Col. No. 15382. Maragheh, Azerbaijan. Elevation 6,300 feet. Summer type; long; flavor mild.

**228345.** *HELIANTHUS ANNUUS* L. Asteraceae. **Common sunflower.**

Col. No. 15378. Maragheh, Azerbaijan. Elevation 6,300 feet.

**228346.** *HORDEUM* sp. Poaceae.

Col. No. 15335. Fourteen miles east of Sanandaj, Kurdistan. Elevation 8,500 feet. Perennial tough, hard, strong-rooted, cespitose.

**228347 and 228348.** *HORDEUM VULGARE* L. **Barley.**

**228347.** Col. No. 15481. Sarab, Azerbaijan. Elevation 6,500 feet. Short-stemmed; irrigated.

**228348.** Col. No. 15516. Northeast side of Kuhe Savalan, Azerbaijan.

**228333 to 228373—Continued**

- 228349 and 228350.** *MEDICAGO SATIVA* L. Fabaceae. **Alfalfa.**  
**228349.** Col. No. 15352. Forty miles north of Sanandaj, Kurdistan. Elevation 8,000 feet. Tall, rank, heavy type.  
**228350.** Col. No. 15553. Market in Ardabil, Azerbaijan. Elevation 6,000 feet. Cultivated.
- 228351.** *MELILOTUS OFFICINALIS* (L.) Lam. Fabaceae. **Yellow sweetclover.**  
 Col. No. 15337. Twenty-two miles north of Sanandaj, Kurdistan. Winter and spring annual, to about 3 feet high.
- 228352.** *ONOBRYCHIS VICIAEFOLIA* Scop. Fabaceae. **Sainfoin.**  
 Col. No. 15356. Thirty miles south of Saghez, Kurdistan. Elevation 8,000 feet.
- 228353.** *ONOBRYCHIS* sp.  
 Col. No. 15274. Five miles north of Kermanshah. Elevation 6,000 feet. Erect and spreading, coarse perennial.
- 228354.** *ONOBRYCHIS* sp.  
 Col. No. 15319. Ten miles east of Sanandaj, Kurdistan. Elevation 8,000 feet. Spreading perennial on rocky slope.
- 228355.** *ORYZOPSIS* sp. Poaceae.  
 Col. No. 15539. Northeast side of Kuhe Savalan, Azerbaijan. Elevation 11,000 feet. Fine-leaved perennial; culms slender to 1.5 feet high.
- 228356.** *PAPAVER SOMNIFERUM* L. Papaveraceae. **Opium poppy.**  
 Col. No. 15380. Maragheh, Azerbaijan. Elevation 6,300 feet.
- 228357 and 228358.** *PHASEOLUS VULGARIS* L. Fabaceae. **Common bean.**  
**228357.** Col. No. 15390. Market Maragheh, Azerbaijan. Elevation 6,300 feet. Mixed variety.  
**228358.** Col. No. 15404. 'Lubia'. Market, Maragheh, Azerbaijan. Dark red variety.
- 228359.** *RAPHANUS SATIVUS* L. Brassicaceae. **Radish.**  
 Col. No. 15394. Market Maragheh, Azerbaijan. Elevation 6,300 feet. Long type; white with red top.
- 228360 to 228362.** *SECALE CEREALE* L. Poaceae. **Rye.**  
**228360.** Col. No. 15320. Eleven miles east of Sanandaj, Kurdistan. Elevation 8,500 feet.  
**228361.** Col. No. 15421. Southeast of Kuhe Sahand, Azerbaijan. Elevation 9,000 feet.  
**228362.** Col. No. 15549. Northeast spur of Kuhe Savalan, Azerbaijan. Elevation 8,000 feet.
- 228363.** *SOLANUM MELONGENA* L. Solanaceae. **Eggplant.**  
 Col. No. 15389. 'Badengah'. Market Maragheh, Azerbaijan. Elevation 6,300 feet. Large round variety.
- 228364.** *SORGHUM HALEPENSE* (L.) Pers. Poaceae. **Johnsongrass.**  
 Col. No. 15286. Thirty-two miles north of Kermanshah along road to Sanandaj. Elevation 7,000 feet.
- 228365.** *TRIFOLIUM PRATENSE* L. Fabaceae. **Red clover.**  
 Col. No. 14849. Tehran. May 22, 1955. Elevation 4,800 feet.
- 228366 and 228367.** *TRIFOLIUM REPENS* L. **Whiteclover.**  
**228366.** Col. No. 15464. Northeast of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet.  
**228367.** Col. No. 15529. Northeast side of Kuhe Savalan, Azerbaijan. Elevation 10,500 feet.

**228333 to 228373—Continued****228368. TRIFOLIUM HYBRIDUM L.****Alsike clover.**

Col. No. 15426. Southeast of Kuhe Sahand, Azerbaijan. Elevation 9,000 feet. Low-growing, caespitose; heads pink.

**228369. TRIFOLIUM SPADICEUM L.****Clover.**

Col. No. 15438. Northeast of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Erect perennial, to 4 feet high; stems leafy; flowers white.

**228370. TRIFOLIUM AMBIGUUM M. Bieb.****Kura clover.**

Col. No. 15441. Northeast of Kuhe Sahand. Elevation 10,000 feet. Low spreading annual.

**228371. TRIFOLIUM PRATENSE L.****Red clover.**

Col. No. 15448. Northeast of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Large, erect, pink-headed type.

**228372. TRIFOLIUM AMBIGUUM M. Bieb.****Kura clover.**

Col. No. 15509. Northeast slope of Kuhe Savalan, Azerbaijan. Elevation 9,500 feet. Erect, slender annual, to 1 foot high.

**228373. CORONILLA VARIA L. Fabaceae.****Crownvetch.**

Col. No. 15351. Twenty-two miles north of Sanandaj, Kurdistan. Elevation 6,700 feet. Erect to spreading annual; stems to 2 feet high; excellent forage.

**228374 to 228380. THEOBROMA CACAO L. Sterculiaceae.****Cacao.**

From Costa Rica. Budwood presented by the Instituto Inter-Americano de Ciencias Agricolas, Turrialba. Received Oct. 10, 1955.

**228374. U.F. 221.****228378. U.F. 668.****228375. U.F. 613.****228379. U.F. 676.****228376. U.F. 650.****228380. U.F. 677.****228377. U.F. 667.****228381 and 228382.**

From Japan. Bulbs collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 7, 1955.

**228381. DIOSCOREA TOKORO Makino Dioscoreaceae.****Yam.**

'Hi-Kai'. From K. Kato, Ministry of Agriculture, Tokyo.

**228382. LYCORIS RADIATA (L'Her.) Herb. Amaryllidaceae.****Shorttube lycoris.**

'Alba'. From Mr. Skurai, Tokyo.

**228383 to 228411.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Sept. 10, 1955.

Collected July to Sept., 1955.

**228383. DACTYLIS GLOMERATA L. Poaceae.****Orchardgrass.**

Col. No. 15316. East of Sanandaj, Kurdistan. Elevation 8,500 feet.

**228384. AGROPYRON sp. Poaceae.**

Col. No. 15161. Kuhe Bavanat, Fars. Elevation 8,000 feet. Bushy perennial; browsed by sheep and goats.

**228385. AGROPYRON sp.**

Col. No. 15183. West of Esfahan, along road to Shahr-Kord. Elevation 8,000 feet. Perennial; browsed by livestock; used as hay.



**228383 to 228411—Continued**

**228386.** *AGROPYRON TRICHOPHORUM* (Link) Richt. **Stiffhair wheatgrass.**

Col. No. 15310. East of Sanandaj, Kurdistan. Elevation 8,500 feet. Cespitose or colonial perennial.

**228387.** *AGROPYRON* sp.

Col. No. 15328. About 11 miles east of Sanandaj, Kurdistan. Elevation 8,500 feet. Large, leafy clump.

**228388.** *AGROPYRON* sp.

Col. No. 15330. About 11 miles east of Sanandaj, Kurdistan. Elevation 8,500 feet. Colony of single culms.

**228389.** *AGROPYRON CAESPITOSUM* Koch **Wheatgrass.**

Col. No. 15334. About 11 miles east of Sanandaj, Kurdistan. Elevation 8,500 feet. Vigorous bunchgrass; apparently unpalatable.

**228390.** *AGROPYRON* sp.

Col. No. 15499. Nineteen miles west of Ardabil along road to Meshginshahr, Azerbaijan. Elevation 7,000 feet. Slender, sparsely leaved perennial, growing among rocks.

**228391.** *AGROPYRON* sp.

Col. No. 15500. West of Ardabil along road to Meshginshahr, Azerbaijan. Elevation 7,000 feet. Bunchy perennial; growing in dispersed colonies on volcanic slope.

**228392.** *AGROPYRON* sp.

Col. No. 15517. Northeast side of Kuhe Savalan, Azerbaijan. Elevation 10,000 feet. Perennial in broomy bunches; browsed by cattle.

**228393.** *ASTRAGALUS* sp. **Fabaceae.**

Col. No. 15694. Gach Sar, Alborz Range. Elevation 6,800 feet. Shrub; flowers yellow.

**228394.** *BROMUS TOMETELLUS* Boiss. **Poaceae.** **Brome.**

Col. No. 15191. Near Ghaverokh along road to Shahr-Kord. Elevation 7,700 feet. Perennial; good range grass.

**228395.** *BROMUS TOMETELLUS* Boiss. **Brome.**

Col. No. 15312. About 20 miles east of Sanandaj, Kurdistan. Elevation 8,500 feet. Tufted perennial; leaves hairy, curly, long.

**228396.** *BROMUS MACROSTACHYS* Desf. **Mediterranean brome.**

Col. No. 15339. Twenty-two miles east of Sanandaj, Kurdistan. Elevation 6,700 feet. Spring annual, growing in bottom land.

**228397.** *BROMUS TECTORUM* L. **Cheatgrass.**

Col. No. 15347. Twenty-two miles east of Sanandaj, Kurdistan. Elevation 6,700 feet. Tall annual, in thick bottom land.

**228398.** *HELICOTRICHON PRATENSE* (L.) Pilger **Poaceae.**

Col. No. 15477. East base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Cespitose perennial; stems red; leaves long, thin; sod forming.

**228399.** *BROMUS COMMUTATUS* Schrad. **Poaceae.** **Hairy brome.**

Col. No. 15487. Kuhe Sion between Sarab and Ardabil, Azerbaijan. Elevation 8,500 feet. Annual; leafy base.

**228400.** *BROMUS* sp.

Col. No. 15522. Northeast side of Kuhe Savalan, Azerbaijan. Elevation 10,000 feet. Tall grass on rocky slope.

**228401.** *CRATAEGUS* sp. **Malaceae.**

Col. No. 15710. Twenty-five miles south of Kalow, Caspian slope of Alborz. Spreading shrub; used as understock for apples.



**228383 to 228411—Continued**

**228402.** *ONOBRYCHIS VICIAEFOLIA* Scop. Fabaceae. **Sainfoin.**

Col. No. 15588. Thirty-three miles northeast of Shahr-Kord. Elevation 7,500 feet.

**228403.** *ONOBRYCHIS* sp.

Col. No. 15177. Sixteen miles northwest of Abadeh, Fars. Elevation 7,000 feet. Perennial, bushy, green, leafy; on ungrazed range.

**228404 and 228405.** *POA BULBOSA* L. Poaceae. **Bulbous bluegrass.**

**228404.** Col. No. 15194. Near Ghaverokh, along road to Shahr-Kord. Elevation 7,700 feet. Tufted perennial; culms vigorous, strong.

**228405.** Col. No. 15308. Twenty miles east of Sanandaj, Kurdistan. Elevation 8,500 feet. Small, tufted perennial; scattered on slopes.

**228406.** *STIPA* sp. Poaceae.

Col. No. 15184. Seventy-five miles west of Esfahan, along road to Shahr-Kord. Elevation 8,000 feet. Tufted perennial; browsed by animals.

**228407.** *STIPA* sp.

Col. No. 15307. Twenty miles east of Sanandaj, Kurdistan. Elevation 8,500 feet. Bushy perennial on slope; leaves long, thin.

**228408.** *STIPA* sp.

Col. No. 15311. Twenty mile east of Sanandaj, Kurdistan. Elevation 8,500 feet. Perennial bunchgrass; culms thick.

**228409.** *STIPA* sp.

Col. No. 15313. Twenty miles east of Sanandaj, Kurdistan. Elevation 8,500 feet. Perennial bunchgrass.

**228410.** *STIPA* sp.

Col. No. 15315. Twenty miles east of Sanandaj, Kurdistan. Elevation 8,500 feet. Perennial; leaves long, wiry; culms short.

**228411.** *CORONILLA VARIA* L. Fabaceae. **Crownvetch.**

Col. No. 15255. Perennial in irrigated fields; palatable.

**228412 to 229258.**

From Arizona, New Mexico, Texas and adjoining areas of Mexico. Grass and legume species collected between the summer of 1953 and the spring of 1955 by the staff members and associates of the Texas Agricultural Experiment Station, College Station, Tex.

Seeds unless otherwise noted.

**228412 to 228414.** *AGROPYRON SMITHII* Rydb. Poaceae. **Western wheatgrass.**

**228412.** No. G-1064. Six miles east of Ruidosa, N. Mex. Elevation 6,400 feet.

**228413.** No. G-1123. Near Lordsburg, N. Mex.

**228414.** No. RF-145. Logan Mount, Ariz.

**228415.** *AGROPYRON* sp.

No. XG-221. Roadside, 10 miles east of Superior, Ariz.

**228416.** *AGROSTIS ALBA* L. Poaceae. **Redtop.**

No. Y-22. One and nine-tenths miles southeast of Wilcox, road to Dos Cabezas, Cochise County, Ariz. Elevation 4,200 feet.

**228417.** *ANDROPOGON ALTUS* Hitchc. Poaceae. **Bluestem.**

No. RF-70. Mrs. Mueller's Ranch, about 15 miles north of Marfa, Tex.

**228418.** *DICHANTHIUM ANNULATUM* (Forsk.) Stapf Poaceae. **Palwan.**

No. RF-615. Collected in Tex., originally from Abu Ghraib Experiment Station, Iraq. Appears to grow all year round; irrigated lawns withstand close cutting.

**228412 to 229258—Continued**

**228419 to 228491.** *ANDROPOGON BARBINODIS* Lag. Poaceae. Cane bluestem.

**228419.** No. G-1002. Fort Stockton, Tex. Elevation 4,500 feet.

**228420.** No. G-1013. Four miles east of Sierra Blanca, Tex.

Elevation 4,200 feet.

**228421.** No. G-1015. Four miles east of Sierra Blanca, Tex. Elevation 4,200 feet.

**228422 to 228436.** From New Mexico.

**228422.** No. G-1024. One mile northeast of Organ. Elevation 5,000 feet.

**228423.** No. G-1038. Two miles north of Alamogordo. Elevation 4,200 feet.

**228424.** No. G-1052. Five miles southwest of Mesalero. Elevation 5,800 feet. Plants small.

**228425.** No. G-1053. Five miles southwest of Mesalero. Elevation 5,800 feet. Plants large.

**228426.** No. G-1065. Six mile east of Ruidosa. Elevation 6,400 feet.

**228427.** No. G-1073. Five miles west of Hondo. Elevation 5,600 feet. Plants small.

**228428.** No. G-1082. Twenty-five miles west of Carrozozo. Elevation 5,500 feet.

**228429.** No. G-1087. Five miles south of Socorro. Elevation 4,800 feet.

**228430.** No. G-1091. Ten miles east of San Antonio. Elevation 5,000 feet.

**228431.** No. G-1120. Twenty-five miles southeast of Lordsburg. Elevation 4,400 feet.

**228432.** No. G-1134. Five miles south of Animas. Elevation 4,600 feet. Nodes short, pubescent.

**228433.** No. G-1135. Fifteen miles south of Animas. Elevation 4,700 feet. Plants eighteen inches high; nodes short-pubescent.

**228434.** G-1142. Twenty miles south of Animas. Elevation 4,850 feet.

**228435.** G-1150. Twenty-five miles south of Animas. Elevation 5,000 feet.

**228436.** G-1156. Thirty-seven miles south of Animas. Elevation 5,100 feet.

**228437.** G-1162. Near New Mexico-Arizona State Line, Highway 86. Elevation 3,700 feet.

**228438 to 228446.** From Arizona.

**228438.** G-1165. Eighteen miles east of Wilcox. Elevation 4,200 feet.

**228439.** G-1168. Twelve miles east of Wilcox. Elevation 4,300 feet.

**228440.** G-1169. Twelve miles east of Wilcox. Elevation 4,300 feet.

**228441.** G-1212. Seven miles northeast of Tucson. Elevation 2,650 feet.

**228442.** G-1218. Ten miles northeast of Tucson. Elevation 2,800 feet. Large ring of hair on nodes.

**228443.** G-1224. Twenty-three miles southeast of Tucson. Elevation 3,600 feet.

**228444.** G-1238. Forty-four miles southeast of Tucson. Elevation 5,000 feet. Hair on nodes long.

**228445.** G-1246. Two miles east of Patagonia. Elevation 4,200 feet.

**228446.** G-1264. Ten miles northeast of Tucson. Mount Lemon Road. Elevation 3,200 feet.

## 228412 to 229258—Continued

## 228419 to 228491—Continued

## 228447 to 228467. From Mexico.

228447. G-1275. Ten miles south of Nogales, Sonora. Elevation 3,700 feet.
228448. G-1355. Four miles west of Durango City. Elevation 6,300 feet. Nodes barbed, glumes perforated.
228449. G-1362. Seven miles west of Durango City. Elevation 6,900 feet. Glumes not perforated.
228450. G-1374. Twelve miles west of Durango City. Elevation 7,400 feet. Plant to 6 feet high, large rings of hair on nodes.
228451. G-1375. Fourteen miles west of Durango City. Elevation 7,400 feet. Short hair on nodes.
228452. G-1376. Fourteen miles west of Durango City. Elevation 7,400 feet. Long hair on nodes.
228453. G-1383. Fourteen miles north of Durango City. Elevation 6,000 feet.
228454. G-1384. Fourteen miles north of Durango City. Elevation 6,000 feet.
228455. G-1390. Fourteen miles north of Durango City. Elevation 6,000 feet.
228456. G-1393. Fifty-five miles north of Durango City. Elevation 5,950 feet. Pits large.
228457. G-1394. Fifty-five miles north of Durango City. Elevation 5,950 feet. Pits small. Small ring of hair on nodes.
228458. G-1395. Fifty-five miles north of Durango City. Elevation 5,950 feet. Plant small; glumes not perforated.
228459. G-1396. Fifty-five miles north of Durango City. Elevation 5,950 feet. Plant fuzzy.
228460. G-1407. Eighty miles north of Durango City. Elevation 5,900 feet.
228461. G-1431. Ninety-four miles south of Durango City. Elevation 7,300 feet. Small rings of hair on nodes, pits.
228462. No. G-1434. Ninety-four miles south of Durango City. Elevation 7,300 feet. Small rings of hair on nodes; no pits.
228463. No. G-1447. Fifty-five miles northeast of Durango City. Elevation 6,600 feet. Nodes pubescent.
228464. No. G-1464. Ninety-eight miles east of Durango City. Elevation 5,000 feet.
228465. No. G-1483. Nine miles west of Bermejillo, Durango. Elevation 4,000 feet.
228466. No. G-1493. Fifty-four miles west of Bermejillo, Durango. Elevation 5,200 feet. Very dry area.
228467. No. G-1503. Sixty-seven miles west of Bermejillo, Durango. Elevation 6,400 feet. Very dry area.
228468. No. G-153A. Spur Ranch, R. Mellard. About 25 miles south of Marfa, Tex. Dry, rocky soil. Elevation 4,500 feet. Recovered from mixture with *Bouteloua gracilis* (P. I. 216934).
- 228469 to 228474. From Mexico.
228469. No. G-437A. Between Chihuahua and Cuauhtemoe. Recovered from mixture with *Trichachne californica* (P.I. 216629).
228470. No. G-467A. Between Chihuahua and Camargo. Recovered from mixture with *Eriochloa* sp. (P.I. 216416).

**228412 to 229258—Continued****228419 to 228491—Continued****228469 to 228474—Continued**

228471. G-471A. Between Chihuahua and Camargo. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216249).

228472. G-665A. South of Monterrey. Elevation 1,800 feet. Recovered from mixture with *Trichachne californica* (P.I. 216642).

228473. G-839A. Between Durango and Torreon. Recovered from mixture with *Bouteloua gracilis* (P.I. 216342).

228474. G-435. Between Chihuahua and Cuauhtemoc.

228475. XG-174. Big Bend National Park Headquarters, Tex. Elevation 4,700 feet. Very gravelly clay loam; clones.

228476. XG-177. Railroad right of way, 10 miles west of Alpine, Tex. Elevation 4,500 feet. Very gravelly clay loam; clones.

228477 to 228481. From Arizona.

228477. XG-195. Five miles southeast of Chiricahua National Monument. Elevation 5,000 feet. Clay loam soil.

228478. XG-197. Six miles south of Pearce. Elevation 5,000 feet. Very dry, gravelly, sandy loam soil.

228479. XG-201. Page Ranch, 35 miles north of Tucson. Plant very large, coarse, leafy, vigorous.

228480. XG-202. Page Ranch, 35 miles north of Tucson. Plant typical.

228481. XG-218. Ten miles east of Superior. Elevation 4,700 feet.

228482. XG-245. Thirty-five miles southeast of Carlsbad, N. Mex. Elevation 3,000 feet.

228483. XG-256. Seven miles west of Ozona, Tex. Elevation 2,500 feet.

228484. RF-46. Near Hensel Park, College Station, Tex.

228485. RF-425. Sabino Canyon Near Tucson, Ariz.

228486. RF-433. Benson, Ariz.

228487 to 228490. From Texas.

228487. RF-85. Carrizo Springs.

228488. No. RF-86. Carrizo Springs.

228489. No. RF-54. Eight miles south of Burnet.

228490. No. RF-11. Guy Combs Ranch 24 miles south of Marathon. Sandy soil—overflow land of Maravella Creek.

228491. No. Y-14. Three miles northeast of Noon Creek Camp, Ariz. Elevation 5,300 feet.

228492 to 228501. *ANDROPOGON CIRRHATUS* Hack. **Texas bluestem.**

228492. No. G-1158. Thirty-eight miles south of Animas, N. Mex. Elevation 5,150 feet.

228493 to 228496. From Arizona.

228493. No. G-1174. Texas Canyon, east of Tucson. Elevation 4,600 feet.

228494. No. G-1239. Forty-four miles southeast of Tucson. Elevation 5,000 feet.

228495. No. G-1250. Six miles east of Patagonia. Elevation 4,400 feet.

228496. No. G-1273. Seventeen miles northeast of Tucson. Elevation 4,800 feet.



**228412 to 229258—Continued****228492 to 228501—Continued**

**228497 to 228499.** From Mexico.

**228497.** No. G-1350. Along road between Mazatlan and Durango City, Sinaloa. Elevation 2,400 feet.

**228498.** No. C-1365. Seven miles west of Durango City. Elevation 6,900 feet.

**228499.** No. C-1426. Seventy-four miles southeast of Durango City. Elevation 8,000 feet.

**228500.** No. XG-215. Ten miles east of Superior, Ariz.

**228501.** No. Y-28. One and eight-tenths miles east of Bellota Ranch, Redington Road, Ariz. Elevation 4,300 feet.

**228502 and 228503.** *ANDROPOGON EDWARDSIANUS* Gould **Merrill bluestem.**

**228502.** No. 353A. Experiment Station, Marfa, Tex. Recovered from mixture with *Andropogon barbinodis*. (P.I. 216057).

**228503.** No. RF-437. Range Experiment Station, Sonora, Tex.

**228504.** *ANDROPOGON EXARISTATUS* (Nash) Hitchc. **Awnless bluestem.**

No. RF-477. Texas City, Galveston County, Tex. Vacant lot near 816 15th Avenue, N.

**228505.** *ANDROPOGON GERARDII* Vitman. **Big bluestem.**

No. RF-546. N. G. Early Ranch. One mile west of Hunt, Tex.

**228506 to 228513.** *ANDROPOGON HIRTIFLORUS* (Nees) Kunth. **Bluestem.**

**228506 to 228508.** From Arizona.

**228506.** No. G-1259. Six miles east of Patagonia. Elevation 4,400 feet.

**228507.** No. G-1261. East of Patagonia. Elevation 4,500 feet.

**228508.** No. G-1274. Twenty miles northeast of Tucson. Elevation 5,600 feet.

**228509 to 228513.** From Mexico.

**228509.** No. G-1372. Eight miles west of Durango City. Elevation 7,000 feet.

**228510.** No. G-1380. Fourteen miles west of Durango City. Elevation 7,400 feet.

**228511.** No. G-1387. Fourteen miles north of Durango City. Elevation 6,000 feet.

**228512.** No. G-1429. Ninety-four miles south of Durango City. Elevation 7,300 feet.

**228513.** No. G-1441. Seventy miles north of Zacatecas City. Elevation 7,400 feet.

**228514 to 228517.** *ANDROPOGON BARBINODIS* var. *PERFORATUS* (Hack.) Gould **Pinhole bluestem.**

**228514.** No. G-1144. Twenty-one miles south of Animas, N. Mex. Elevation 4,940 feet.

**228515.** No. G-1240. Forty-four miles southeast of Tucson, Ariz. Elevation 5,000 feet.

**228516.** No. G-1370. Eighty miles west of Durango City, Mexico. Elevation 7,100 feet. Large pinhole.

**228517.** No. RF-463 Beeville, Bee County, Tex. Plants large and variable.

**228518.** *ANDROPOGON TERNARIUS* Michx. **Bluestem.**

No. RF-423. Velma, Stephens County, Okla.

## 228412 to 229258—Continued

- 228519 to 228540.** *ANDROPOGON SACCHAROIDES* Swartz **Silver bluestem.**
- 228519.** No. G-1007. Fort Stockton, Tex. Elevation 4,500 feet.
- 228520.** No. G-1051. Six miles southwest of Mescalero, N. Mex. Elevation 5,000 feet.
- 228521.** No. G-1062. Six miles east of Ruidoso, N. Mex. Elevation 6,400 feet.
- 228522.** No. G-1075. Five miles west of Hondo, Tex. Elevation 5,600 feet. Plant coarse, nodes glabrous.
- 228523.** No. G-1092. Ten miles east of San Antonio, Tex. Elevation 5,000 feet.
- 228524 to 228526.** From New Mexico.
- 228524.** No. G-1100. Eighteen miles south of Albuquerque. Elevation 4,800 feet.
- 228525.** No. G-1101. Eighteen miles south of Albuquerque. Elevation 4,800 feet.
- 228526.** No. G-1104. Socorro. Elevation 4,350 feet. Foliage red.
- 228527.** No. G-1484. Seventeen miles west of Bermejillo, Durango, Mexico. Elevation 4,000 feet.
- 228528.** No. G-1555. One hundred and fifty-six miles north of Saltillo, Coahuila, Mexico.
- 228529.** No. G-1557. Two hundred and nine miles north of Saltillo, Coahuila, Mexico. Elevation 1,700 feet.
- 228530.** No. G-1571. Sixteen miles east of Laredo, Tex. Elevation 700 feet.
- 228531.** No. H-V 358A. Haskell, Tex. Recovered from mixture with *Bouteloua gracilis* (P.I. 216959).
- 228532.** No. G-223A. Between Gallegos and Encinillas, Chihuahua, Mexico. Elevation 5,600 feet. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216219).
- 228533.** No. G-247A. Two miles south of Alpine, Tex. Elevation 4,800 feet. Recovered from mixture with *Setaria macrostachya* (P.I. 216550).
- 228534.** No. G-254A. Fourteen miles north of Terlingua, Tex. Elevation 2,800 feet. Very dry mountainside. Recovered from mixture with *Bouteloua breviseta* (P.I. 216807).
- 228535.** No. G-365A. North of Chihuahua, Mexico. Recovered from mixture with *Bouteloua gracilis* (P.I. 216308).
- 228536.** No. G-453A. Between Chihuahua and Cuauhtemoc, Mexico. Recovered from mixture with *Setaria* sp. (P.I. 216570).
- 228537.** No. RF-404. Twenty-one miles east of Roswell, Shaves Co., N. Mex.
- 228538.** No. RF-472. Comfort, Tex.
- 228539.** No. RF-474. Logan, N. Mex.
- 228540.** No. RF-39. Roadside farm, one-half mile west of College Station, Tex.
- 228541 to 228549.** *ANDROPOGON SCOPARIUS* Michx. **Little bluestem.**
- 228541.** No. RF-90. Burnet, Tex.
- 228542.** No. RF-179. Cottle County, Tex. Gypsum outcrop; shallow soil.
- 228543.** No. RF-19. Sonora, Mexico.
- 228544 to 228547.** From White Sands National Monument, N. Mex.
- 228544.** No. G-1031. Elevation 3,700 feet.
- 228545.** No. G-1033. Elevation 3,700 feet.

**228412 to 229258—Continued****228541 to 228549—Continued****228544 to 228547—Continued**

228546. No. G-1036. Elevation 3,700 feet.

228547. No. G-1037. Elevation 3,700 feet.

228548. No. G-1109. Five miles southwest of Vaughn, N. Mex.

228549. No. XG-239 White Sands National Monument, 13 miles west of Alamogordo, N. Mex.

**228550 and 228551. ANDROPOGON WRIGHTII Hack. Poaceae. Wrights bluestem.**

228550. No. G-1366. Seven mile west of Durango City, Mexico. Elevation 6,900 feet.

228551. No. G-1435. Ninety-four miles south of Durango City, Mexico. Elevation 7,300 feet.

**228552 to 228555. From New Mexico.****228552. ANDROPOGON sp.**

No. G-1077. Three miles northwest of Hondo. Elevation 5,300 feet. Mixture of types.

**228553 and 228554. ANDROPOGON BARBINODIS Lag.****Cane bluestem.**

228553. No. G-1116. Ten miles west of Deming. Elevation 4,450 feet.

228554. No. G-1121. Twenty-five miles southeast of Lordsburg. Elevation 4,400 feet. Nodes glabrous.

**228555. ANDROPOGON sp.**

No. G-1152. Thirty-five miles south of Animas. Elevation 5,100 feet.

**228556 to 228562. From Arizona.****228556. ANDROPOGON sp.**

No. G-1178. Six miles southwest of Tucson. Elevation 2,500 feet.

**228557. ANDROPOGON sp.**

No. G-1184. Nineteen miles southwest of Tucson. Elevation 3,300 feet.

**228558. ANDROPOGON sp.**

No. G-1193. Eight miles northwest of Tucson. Elevation 2,700 feet.

**228559. ANDROPOGON sp.**

No. G-1198. Willow Springs Ranch, Tucson. Elevation 300 feet.

**228560. ANDROPOGON sp.**

No. G-1210. Seven miles northeast of Tucson. Elevation 2,650 feet. Plant coarse.

**228561. ANDROPOGON sp.**

No. G-1237. Forty-four miles southeast of Tucson. Elevation 5,000 feet.

**228562. ANDROPOGON sp.**

No. G-1233. Thirteen miles northeast of Tucson. Elevation 3,950 feet.

**228563 to 228589. From Mexico.****228563. ANDROPOGON BREVIFOLIUS Swartz****Bluestem.**

No. G-1308. Mountains northeast of Obregon City, Sonora. Elevation 1,700 feet. An annual.

**228564. ANDROPOGON sp.**

No. G-1356. Four miles west of Durango City. Elevation 6,500 feet. Nodes without hairs.

**228565. ANDROPOGON BARBINODIS Lag.****Cane bluestem.**

No. G-1360. Seven miles west of Durango City. Elevation 6,900 feet. Spikelets small.

**228412 to 229258—Continued****228563 to 228580—Continued****228566. ANDROPOGON sp.**

No. G-1361. Seven miles west of Durango City. Elevation 6,900 feet. Plant large; node short-pubescent; glumes perforated.

**228567. ANDROPOGON sp.**

No. G-1377. Fourteen miles west of Durango City. Elevation 7,400 feet. To 3 feet high; node short-pubescent; glumes perforated.

**228568. ANDROPOGON BARBINODIS var. PERFORATUS (Hack.) Gould.**

**Pinhole bluestem.**

No. G-1386. Fourteen miles north of Durango City. Elevation 6,000 feet. Plants to 2 feet high; nodes short-pubescent; glumes pitted.

**228569. ANDROPOGON sp.**

No. G-1411. Fifty-six miles south of Durango City. Elevation 6,600 feet. Nodes without hairs.

**228570. ANDROPOGON sp.**

No. G-1412. Forty-six miles south of Durango City. Elevation 6,600 feet. Large ring of hairs around nodes.

**228571. ANDROPOGON sp.**

No. G-1413. Fifty-six miles south of Durango City. Elevation 6,600 feet. Small ring of hairs on nodes.

**228572. ANDROPOGON sp.**

No. G-1432. Ninety-four miles south of Durango City. Elevation 7,300 feet. Small rings of hair around nodes.

**228573. ANDROPOGON sp.**

No. G-1446. Fifty-five miles northeast of Durango City. Elevation 6,600 feet.

**228574. ANDROPOGON sp.**

No. G-1461. Seventy-three miles northeast of Durango City. Elevation 6,300 feet. Glumes pitted.

**228575. ANDROPOGON sp.**

No. G-1462. Seventy-three miles northeast of Durango City. Elevation 6,300 feet. Glumes not pitted.

**228576. ANDROPOGON sp.**

No. G-1508. Eighteen miles north of Bermejillo, Durango. Elevation 4,000 feet. Nodes short-pubescent; glumes not pitted.

**228577. ANDROPOGON sp.**

No. G-1515. Sixty-two miles east of Torreon, Coahuila. Elevation 3,800 feet.

**228578. ANDROPOGON sp.**

No. G-1533. Ten miles southeast of Saltillo, Coahuila. Elevation 6,300 feet. Nodes short-pubescent; glumes not pitted.

**228579. ANDROPOGON sp.**

No. G-1541. Ten miles north of Saltillo, Coahuila. Elevation 4,900 feet.

**228580. ANDROPOGON sp.**

No. G-1549. Seventy-four miles north of Saltillo, Coahuila. Elevation 4,300 feet.

**228581. ANDROPOGON sp.**

No. G-1567. Ten miles northwest of Carrizo Springs, Tex. Elevation 1,000 feet.



**228412 to 229258—Continued****228582. ANDROPOGON sp.**

No. G-208A. Five miles north of Shafter, Tex. Elevation 4,700 feet. Recovered from mixture with *Panicum obtusum* (P.I. 216501).

**228583. ANDROPOGON sp.**

No. G-468A. Between Chihuahua and Carmago, Mexico. Recovered from mixture with *Setaria macrostachya* (P.I. 216559).

**228584. ANDROPOGON sp.**

No. G-768A. Between Durango and Parral, Mexico. Received from mixture with *Bouteloua gracilis* (P.I. 216334).

**228585. ANDROPOGON sp.**

No. RF-402. Sandia Mountains, Sandoval County, N. Mex.

**228586. ANDROPOGON sp.**

No. RF 403. Schole, Socorro County, N. Mex.

**228587. ANDROPOGON sp.**

No. Y-6. Five miles southwest of Oracle, Pinal County, Ariz. Elevation 4,400 feet.

**228588. ARISTIDA HAMULOSA Henr. Poaceae. Three-awn.**

No. Y-11. Three miles northeast of Noon Creek Camp, Ariz. Elevation 5,300 feet.

**228589. ARISTIDA ORCUTTIANA Vasey Single three-awn.**

No. Y-23. One and eight-tenths miles east of Bellota Ranch, Pima County, Ariz. Elevation 4,300 feet.

**228590. ARISTIDA sp.**

No. G-42A. Ten miles north of San Angelo, Tex. Elevation 1,900 feet. Recovered from mixture with *Hilaria mutica*. (P.I. 216434).

**228591. ARISTIDA sp.**

No. 393A. North of Chihuahua, Mexico. Recovered from mixture with *Bouteloua hirsuta* (P.I. 216350).

**228592. AVENA SATIVA L. Poaceae. Common oats.**

No. XG-208. Page Ranch, thirty-five miles north of Tucson, Ariz. Five miles west of Oracle.

**228593. BOUTELOUA BREVISETA Vasey Poaceae. Gyp grama.**

No. G-1476. One hundred and thirty-three miles northeast of Durango City, Mexico. Elevation 4,600 feet.

**228594 and 228595. BOUTELOUA CHRONDROSIODES (H.B.K.) Beth. Spruce grama.**

228594. No. G-1232. Thirty-nine miles southeast of Tucson, Ariz. Elevation 4,200 feet.

228595. No. G-1327. Sierra de Alamos, Sonora, Mexico. Elevation 2,600 feet.

**228596 to 228709. BOUTELOUA CURTIPENDULA (Michx.) Torr. Sideoats grama.**

228596 to 228600. From Texas.

228596. No. G-1006. Fort Stockton. Elevation 4,500 feet. Straw color spikelets.

228597. No. G-1008. Fort Stockton. Elevation 4,500 feet. Spikelets intermediate, purplish.

228598. No. G-1009. Ten miles west of Marfa. Elevation 4,200 feet. Spikelets straw colored.

228599. No. G-1010. Ten miles west of Marfa. Elevation 4,200 feet. Spikelets purple.

**228412 to 229258—Continued****228596 to 228709—Continued****228596 to 228600—Continued**

**228600.** No. G-1011. Ten miles west of Marfa. Elevation 4,200 feet. Spikelets purplish.

**228601 to 228627. From New Mexico.**

**228601.** No. G-1022. One mile northeast of Organ. Elevation 5,000 feet. Spikelets straw-colored.

**228602.** No. G-1025. One mile northeast of Organ. Elevation 5,000 feet. Spikelets purple.

**228603.** No. G-1027. One mile northeast of Organ. Elevation 5,000 feet. Spikelets purplish.

**228604.** No. G-1046. Six miles northeast of Tularosa. Elevation 4,900 feet.

**228605.** No. G-1054. Five miles southwest of Mescalero. Elevation 5,800 feet. Plant purple.

**228606.** No. G-1057. Five miles southwest of Mescalero. Elevation 5,800 feet. Spikelets purplish.

**228607.** No. G-1058. Mescalero. Elevation 6,400 feet.

**228608.** No. G-1060. Six miles east of Ruidoso. Elevation 6,400 feet. Spikelets purple.

**228609.** No. G-1068. One mile northwest of Hondo. Elevation 5,200 feet. Spikelets straw-colored.

**228610.** No. G-1069. One mile northwest of Hondo. Elevation 5,200 feet. Spikelets brown.

**228611.** G-1071. Five miles west of Hondo. Elevation 5,600 feet. Spikelets brown.

**228612.** No. G-1074. Five miles west of Hondo. Elevation 5,600 feet. Spikelets straw-colored.

**228613.** No. G-1078. Three miles northwest of Hondo. Elevation 5,300 feet. Spikelets large.

**228614.** No. G-1079. Three miles northwest of Hondo. Elevation 5,300 feet. Spikelets small.

**228615.** No. G-1081. Twenty-five miles west of Carrizozo. Elevation 5,500 feet.

**228616.** No. G-1088. Two miles south of Socorro. Elevation 4,800 feet.

**228617.** No. G-113. Five miles east of Moriarty. Elevation 6,100 feet.

**228618.** No. G-1117. Fifteen miles west of Deming. Elevation 4,500 feet. Spikelets straw-colored.

**228619.** No. G-1118. Fifteen miles west of Deming. Elevation 4,500 feet. Spikelets brown.

**228620.** No. G-1119. Twenty-five miles southeast of Lordsburg. Elevation 4,400 feet.

**228621.** No. G-1131. Five miles south of Animas. Elevation 4,600 feet. Plants purple.

**228622.** No. G-1132. Five miles south of Animas. Elevation 4,600 feet. Spikelets brown.

**228623.** No. G-1133. Five miles south of Animas. Elevation 4,600 feet. Spikelets purple.

**228624.** No. G-1141. Twenty miles south of Animas. Elevation 4,850 feet.

**228625.** No. G-1146. Twenty-one miles south of Animas. Elevation 4,950 feet. Glumes purplish.

**228412 to 229258—Continued****228596 to 228709—Continued****228601 to 228627—Continued**

**228626.** No. G-1147. Twenty-one miles south of Animas. Elevation 4,950 feet. Plants purple.

**228627.** No. G-1154. Thirty-five miles south of Animas. Elevation 5,100 feet.

**228628 to 228642. From Arizona.**

**228628.** No. G-1164. Eighteen miles east of Wilcox. Elevation 4,200 feet.

**228629.** No. G-1191. Eight miles northwest of Tucson. Elevation 2,700 feet.

**228630.** No. G-1196. Willow Springs Ranch, Tucson. Elevation 3,300 feet. Spikelets purple.

**228631.** No. G-1201. Willow Springs Ranch, Tucson. Elevation 3,300 feet. Spikelets tan.

**228632.** No. G-1203. Willow Springs Ranch, Tucson. Elevation 3,300 feet. Spikelets small, brown.

**228633.** No. G-1207. Six miles northeast of Tucson. Elevation 2,600 feet.

**228634.** No. G-1216. Ten miles northeast of Tucson. Elevation 2,800 feet.

**228635.** No. G-1226. Twenty-three miles southeast of Tucson. Elevation 3,600 feet.

**228636.** No. G-1243. Forty-four miles southeast of Tucson. Elevation 5,000 feet. Spikelets pale.

**228637.** No. G-1245. Two miles east of Patagonia. Elevation 4,200 feet. Plant to 5 feet high.

**228638.** No. G-1257. Six miles east of Patagonia. Elevation 4,400 feet.

**228639.** No. G-1258. Six miles east of Patagonia. Elevation 4,400 feet. Spikelets brown.

**228640.** No. G-1267. Thirteen miles northeast of Tucson. Elevation 3,950 feet.

**228641.** No. G-1268. Thirteen miles northeast of Tucson. Elevation 3,950 feet. Glumes white.

**228642.** No. G-1271. Seventeen miles northeast of Tucson. Elevation 4,800 feet.

**228643 to 228677. From Mexico.**

**228643.** No. G-1286. Near Colorado, Sonora. Elevation 1,200 feet. Spikelets straw-colored.

**228644.** No. G-1287. Near Colorado, Sonora. Elevation 1,200 feet. Spikelets brownish.

**228645.** No. G-1292. Seven miles east of Colorado, Sonora. Elevation 1,300 feet. Spikelets brown.

**228646.** No. G-1293. Twelve miles east of Colorado. Elevation 1,500 feet.

**228647.** No. G-1328. Sierra de Alamos, Sonora. Elevation 2,600 feet.

**228648.** No. G-1329. Sierra de Alamos, Sonora. Elevation 2,600 feet.

**228649.** No. G-1331. Sierra de Alamos, Sonora. Elevation 2,800 feet.

**228650.** No. G-1358. Four miles west of Durango City. Elevation 6,400 feet.

**228651.** No. G-1364. Seven miles west of Durango City. Elevation 6,900 feet.



## 228412 to 229258—Continued

## 229596 to 228709—Continued

## 228643 to 228677—Continued

228652. No. G-1397. Fifty-five miles north of Durango City. Elevation 5,950 feet.
228653. No. G-1408. Eighty miles north of Durango City. Elevation 5,900 feet.
228654. No. G-1414. Fifty-six miles south of Durango City. Elevation 6,600 feet. Large form.
228655. No. G-1419. Fifty-six miles south of Durango City. Elevation 6,600 feet. Small form.
228656. No. G-1430. Ninety-four miles south of Durango City. Elevation 7,300 feet.
228657. No. G-1443. Seventy miles north of Zacatecas City. Elevation 7,400 feet.
228658. No. G-1448. Fifty-five miles northeast of Durango City. Elevation 6,600 feet. Spikelets straw-colored.
228659. No. G-1454. Fifty-seven miles northeast of Durango City. Elevation 6,500 feet. Spikelets straw-colored.
228660. No. G-1455. Fifty-seven miles northeast of Durango City. Elevation 6,500 feet. Spikelets brown.
228661. No. G-1458. Seventy-three miles northeast of Durango City. Elevation 6,300 feet.
228662. No. G-1465. One hundred miles northeast of Durango City. Elevation 5,000 feet. Spikelets purple.
228663. No. G-1466. One hundred miles northeast of Durango City. Elevation 5,000 feet. Spikelets straw-colored.
228664. No. G-1467. One hundred miles northeast of Durango City. Elevation 5,000 feet. Spikelets small.
228665. No. G-1473. One hundred and thirty-three miles northeast of Durango City. Elevation 4,600 feet.
228666. No. G-1482. Nine miles west of Bermejillo, Durango. Elevation 4,000 feet.
228667. No. G-1489. Forty-six miles west of Bermejillo, Durango. Elevation 5,400 feet. Very dry mountainside.
228668. No. G-1494. Fifty-four miles west of Bermejillo, Durango. Elevation 5,200 feet. Very dry area.
228669. No. G-1496. Sixty-seven miles west of Bermejillo, Durango. Elevation 6,400 feet. Very dry area.
228670. No. G-1497. Sixty-seven miles west of Bermejillo, Durango. Elevation 6,400 feet. Very dry area.
228671. No. G-1506. Eighteen miles north of Bermejillo, Durango. Elevation 4,000 feet.
228672. No. G-1532. Ten miles southeast of Saltillo, Coahuila. Elevation 6,300 feet.
228673. No. G-1537. Twenty miles southeast of Saltillo, Coahuila. Elevation 6,300 feet.
228674. No. G-1542. Ten miles north of Saltillo, Coahuila. Elevation 4,900 feet.



**228412 to 229258—Continued****228596 to 228709—Continued****228643 to 228677—Continued**

- 228675.** No. G-1553. Seventy-four miles north of Saltillo, Coahuila. Elevation 4,300 feet.
- 228676.** No. G-1556 A. One hundred fifty-six miles north of Saltillo, Coahuila. Elevation 1,400 feet.
- 228677.** No. G-1558. Two hundred and nine miles north of Saltillo, Coahuila. Elevation 1,700 feet.
- 228678.** No. H-V-359A. Flat Top Ranch. Twenty-five miles southeast of Haskell, Tex. Recovered from mixture with *Bouteloua gracilis* (P.I. 216960).
- 228679.** No. G-339A. Forty-five miles southeast of Sanderson, Tex. Recovered from mixture with *Pappophorum mucronulatum* (P.I. 216533).
- 228680 to 228684.** From Mexico.
- 228680.** No. G-388A. North of Chihuahua City. Recovered from mixture with *Trichachne californica* (P.I. 216626).
- 228681.** No. G-434A. Between Chihuahua and Cuauhtemoc. Recovered from mixture with *Bouteloua chondrosioides* (P.I. 216201).
- 228682.** No. G-440. Between Chihuahua and Cuauhtemoc. Recovered from mixture with *Bouteloua gracilis* (P.I. 216318).
- 228683.** No. 641A. Municipio de Arteaga. About 15 miles east of Saltillo, Coahuila. Recovered from mixture with *Piptochaetium fimbriatum* (P.I. 216540).
- 228684.** No. G-753A. Between Durango and Parral. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216279).
- 228685 to 228690.** From Texas.
- 228685.** No. H-V-71. Stephens County. (Clone.)
- 228686.** No. H-V-221. Seymour. (Clone.)
- 228687.** No. H-V-263. Paducah. (Clone.)
- 228688.** No. H-V-382. Fifteen miles east and three miles south of Anson. Good recovery from drouth. (Clone.)
- 228689.** No. XG-172. Big Bend National Park Headquarters. Elevation 4,700 feet. (Clone.)
- 228690.** No. XG-178. Ten miles west of Alpine. Elevation 4,500 feet. (Clone.)
- 228691.** No. XG-184. New Mexico A & M College Ranch, Albuquerque, New Mexico. Elevation 4,000 feet. (Clones.)
- 228692.** No. XG-186. Sunmaford Mountain. Elevation 4,500 feet. (Clones.)
- 228693 to 228698.** From Arizona.
- 228693.** No. XG-194. Five miles southeast of Chiricahua National Monument. Elevation 5,000 feet. (Clones.)
- 228694.** No. XG-198. Six miles south of Pearce. Elevation 5,000 feet. (Clones.)
- 228695.** No. XG-203. Thirty-five miles north of Tucson. Elevation 3,200 feet. (Clones.)
- 228696.** No. XG-217. Ten miles east of Superior. Elevation 4,700 feet. (Clones.)
- 228697.** No. XG-224. Ten miles east of Globe. Elevation 3 500 feet. (Clones.)
- 228698.** No. XG-230. Ten miles west of Duncan. Elevation 3,000 feet. (Clones.)

**228412 to 229258—Continued****228596 to 228709—Continued**

**228699.** No. XG-237. Thirty-five miles northeast of Las Cruces, N. Mex. Elevation 4,500 feet. (Clones.)

**228700.** No. XG-243. Forty-four miles west of Artesia, N. Mex. Elevation 4,000 feet. (Clones.)

**228701 to 228707.** From Texas.

**228701.** No. XG-253. Thirty-four miles east of Fort Stockton. Elevation 2,800 feet. (Clones.)

**228702.** No. XG-255. Seven miles west of Ozona. Elevation 2,500 feet. (Clones.)

**228703.** No. RF-166. Pasture, nine miles west of Snyder.

**228704.** No. RF-97. South of Neches River.

**228705.** No. RF-7. Guy Combs, Jr., Ranch, 24 miles south of Marathon. Sandy soils of creek overflow.

**228706.** No. RF-121. Nine miles west of Menard.

**228707.** No. RF-1. Dalhart. Artificial stand maintained for seed production.

**228708.** No. Y-2. Five miles southwest of Oracle, Pinal County, Ariz. Elevation 4,400 feet.

**228709.** No. No. Y-15. Three miles northeast of Noon Creek Camp. Elevation 5,300 feet.

**228710 to 228727.** *BOUTELOUA ERIPODA* Torr. Poaceae.**Black grama.****228710 to 228715.** From New Mexico.

**228710.** No. G-1021. One mile northeast of Organ. Elevation 5,000 feet.

**228711.** No. G-1090. Three miles south of Socorro. Elevation 4,800 feet.

**228712.** No. G-1095. Thirty miles west of Carrizozo. Elevation 5,400 feet.

**228713.** No. G-1110. Five miles southwest of Vaughn. Elevation 5,900 feet.

**228714.** No. G-1139. Twenty miles south of Animas. Elevation 4,850 feet.

**228715.** No. G-1149. Twenty-five miles south of Animas. Elevation 5,000 feet.

**228716 to 228718.** From Arizona.

**228716.** No. G-1163. Eighteen miles east of Wilcox. Elevation 4,200 feet.

**228717.** No. G-1208. Six miles northeast of Tucson. Elevation 2,600 feet.

**228718.** No. G-1227. Twenty-three miles southeast of Tucson. Elevation 3,600 feet.

**228719 to 228721.** Texas.

**228719.** No. XG-169. Eleven miles west of Sanderson. Elevation 2,800 feet. (Clones.)

**228720.** No. XG-176. Ten miles west of Alpine. Elevation 4,500 feet. (Clones.)

**228721.** No. XG-179. Ten miles west of Van Horn. Elevation 4,100 feet. (Clones.)

**228722.** No. XG-189. Jornada Experimental Range, N. Mex. Elevation 4,900 feet. (Clones.)

**228723.** No. XG-191. Roadside, 14 from miles Lordsburg, on the Duncan Highway, N. Mex. Elevation 4,300 feet. (Clones.)

**228412 to 229258—Continued****228710 to 228727—Continued**

**228724 to 228726.** From Arizona.

**228724.** No. XG-200. Page Ranch, 35 miles north of Tucson. Elevation 3,200 feet. (Clones.)

**228725.** No. XG-226. San Carlos Indian Reservation, 10 miles east of Globe. Elevation 3,500 feet. (Clones.)

**228726.** No. XG-233. Ten miles west of Duncan. Volcanic soil. Elevation 3,000 feet. (Clone.)

**228727.** No. XG-236. Thirty-five miles northeast of Las Cruces, N. Mex. Elevation 4,500 feet. (Clones.)

**228728 to 228731.** *BOUTELOUA FILIFORMIS* (Fourn.) Griffiths **Slender grama.**  
From Mexico.

**228728.** No. G-1278. Puerto Conejos, north of Hermosillo, Sonora. Elevation 2,300 feet.

**228729.** No. G-1279. South of Nogales, Sonora. Elevation 2,300 feet.

**228730.** No. G-1289. Four miles east of Colorada, Sonora. Elevation 1,400 feet.

**228731.** No. G-1309. Mountains northeast of Obregon City, Sonora. Elevation 1,700 feet.

**228732 to 228779.** *BOUTELOUA GRACILIS* (H. B. K.) Lag. **Blue grama.**

**228732.** No. G-1014. Four miles east of Sierra Blanca, Tex. Elevation 4,200 feet.

**228733 to 228747.** From New Mexico.

**228733.** No. G-1029. One mile northeast of Organ. Elevation 5,000 feet.

**228734.** No. G-1045. Six miles northeast of Tularosa. Elevation 4,900 feet.

**228735.** No. G-1047. Six miles southeast of Mescalero. Elevation 5,500 feet.

**228736.** No. G-1050. Six miles southwest of Mescalero. Elevation 5,500 feet.

**228737.** No. G-1059. Ruidosa. Elevation 7,000 feet.

**228738.** No. G-1061. Six miles east of Ruidoso. Elevation 6,400 feet.

**228739.** No. G-1086. Twenty miles west of Carrizozo. Elevation 5,700 feet.

**228740.** No. G-1094. Thirty miles west of Carrizozo. Elevation 5,400 feet.

**228741.** No. G-1105. Thirty miles south of Vaughn. Elevation 6,000 feet.

**228742.** No. G-1112. Five miles east of Moriarty. Elevation 6,100 feet.

**228743.** No. G-1114. Twenty miles east of Albuquerque. Elevation 7,550 feet.

**228744.** No. G-1130. One mile north of Animas. Elevation 4,400 feet.

**228745.** No. G-1137. Twenty miles south of Animas. Elevation 4,850 feet.

**228746.** No. G-1155. Thirty-seven miles south of Animas. Elevation 5,100 feet.

**228747.** No. G-1159. Forty-five miles south of Animas. Elevation 5,300 feet. Plants to two feet high.

**228748.** No. G-1253. Six miles east of Patagonia, Ariz. Elevation 4,400 feet.

**228749.** No. G-1262. Near Fort Huachuca, Ariz. Elevation 4,750 feet.  
Intergrading with *B. hirsuta*.

**228750 to 228766.** From Mexico.

**228750.** No. G-1354. Four miles west of Durango City. Elevation 7,300 feet.



## 228412 to 229258—Continued

## 228732 to 228779—Continued

## 228750 to 228766—Continued

228751. No. G-1379. Fourteen miles west of Durango City. Elevation 7,400 feet.
228752. No. G-1385. Fourteen miles north of Durango City. Elevation 6,000 feet.
228753. No. G-1401. Fifty-five miles north of Durango City. Elevation 5,950 feet.
228754. No. G-1405. Eighty miles north of Durango City. Elevation 5,900 feet.
228755. No. G-1416. Fifty-six miles south of Durango City. Elevation 6,000 feet.
228756. No. G-1424. Sixty-six miles southeast of Durango City. Elevation 7,700 feet.
228757. No. G-1433. Ninety-four miles south of Durango City. Elevation 7,380 feet.
228758. No. G-1437. Seventy miles north of Zacatecas City. Elevation 7,400 feet.
228759. No. G-1449. Fifty-five miles northeast of Durango City. Elevation 6,600 feet.
228760. No. G-1450. Fifty-seven miles northeast of Durango City. Elevation 6,500 feet.
228761. No. G-1451. Fifty-seven miles northeast of Durango City. Elevation 6,500 feet. Tall type.
228762. No. G-1452. Fifty-seven miles northeast of Durango City. Elevation 6,500 feet.
228763. No. G-1453. Fifty-seven miles northeast of Durango City. Elevation 6,500 feet.
228764. No. G-1495. Fifty-four miles west of Bermejillo, Durango. Elevation 5,200 feet. Very dry area.
228765. No. G-1500. Sixty-seven miles west of Bermejillo, Durango. Elevation 6,400 feet. Very dry area.
228766. No. G-1539. Twenty miles southeast of Saltillo, Coahuila. Elevation 6,900 feet.
228767. No. H-V-273-A. Southwest of Guthrie, King County, Tex. Recovered from mixture with *Andropogon saccharoides* (P.I. 216720).
228768. No. G-634-A. Ten miles east of Saltillo, Mexico. Recovered from mixture with *Aristida* sp. (P.I. 21698).
228769. No. G-701-A. Between Durango and Torreon, Mexico. Recovered from mixture with *Stipa* sp. (P.I. 216599).
- 228770 to 228773. From Texas. Clones.
228770. No. XG-168. Eleven miles west of Sanderson. Elevation 2,800 feet.
228771. No. XG-171. Big Bend National Park Headquarters. Elevation 4,700 feet.
228772. No. XG-175. Ten miles west of Alpine. Elevation 4,500 feet.
228773. No. XG-180. Ten miles west of Van Horn. Elevation 4,100 feet.
228774. No. XG-192. Five miles southeast of Chiricahua National Monument, Ariz. Elevation 5,000 feet. (Clones.)



**228412 to 229258—Continued****228732 to 228779—Continued**

228775. No. XG-216. Ten miles east of Superior, Ariz. Elevation 4,700 feet. (Clones.)
228776. No. XG-242. Forty-four miles west of Artesia, N. Mex. Elevation 4,000 feet. (Clones.)
228777. No. RF-14. Mineral Wells, originally from Harnett Ranch in Palo Pinto County, Texas.
228778. No. RF-83. J. L. Thomas' Ranch, seven miles west of Marfa, Tex. Overflow flat.
228779. No. Y-20. One and nine-tenths miles southeast of Wilcox, Ariz. Elevation 4,200 feet.

**228780 to 228808. *BOUTELOUA HIRSUTA* Lag.****Hairy grama.**

228780. No. G-1000. Experimental pastures, Sonora, Tex. Elevation 2,600 feet.
- 228781 to 228785. From New Mexico.
228781. No. G-1076. Three miles northwest of Hondo. Elevation 5,300 feet.
228782. No. G-1084. Twenty-five miles west of Carrizozo. Elevation 5,500 feet.
228783. No. G-1107. Five miles southwest of Vaughn. Elevation 5,900 feet.
228784. No. G-1138. Twenty miles south of Animas. Elevation 4,850 feet.
228785. No. G-1157. Thirty-seven miles south of Animas. Elevation 5,100 feet.
- 228786 to 228790. From Arizona.
228786. No. G-1173. Texas Canyon, east of Tucson. Elevation 4,600 feet.
228787. No. G-1211. Seven miles northeast of Tucson. Elevation 2,650 feet.
228788. No. G-1235. Forty-two miles southeast of Tucson. Elevation 4,750 feet.
228789. No. G-1251. Six miles east of Patagonia. Elevation 4,400 feet.
228790. No. G-1270. Seventeen miles northeast of Tucson. Elevation 4,800 feet.

**228791 to 228802. From Mexico.**

228791. No. G-1304. Obregon, Sonora. Elevation 900 feet.
228792. No. G-1325. Sierra de Alamos. Elevation 2,600 feet.
228793. No. G-1336. Sierra de Alamos, Sonora. Elevation 3,000 feet.
228794. No. G-1340. Sierra de Alamos, Sonora. Elevation 3,200 feet.
228795. No. G-1381. Fourteen miles west of Durango City. Elevation 7,400 feet.
228796. No. G-1389. Fourteen miles north of Durango City. Elevation 6,000 feet.
228797. No. G-1415. Fifty-six miles south of Durango City. Elevation 6,600 feet.
228798. No. G-1436. Ninety-four miles south of Durango City. Elevation 7,300 feet.
228799. No. G-1438. Seventy miles north of Zacatecas City. Elevation 7,400 feet.

**228412 to 229258—Continued****228780 to 228808—Continued****228791 to 228802—Continued**

**228800.** No. G-1456. Fifty-seven miles northeast of Durango City. Elevation 6,500 feet.

**228801.** No. G-1530. Ten miles southeast of Saltillo, Coahuila. Elevation 6,300 feet.

**228802.** No. G-1538. Twenty miles southeast of Saltillo, Coahuila. Elevation 6,900 feet.

**228803 to 228805.** From Texas.

**228803.** No. G-1577. Fifty-five miles east of Laredo. Elevation 800 feet.

**228804.** No. H-V-100. Merrick Davis Ranch, six miles west of Albany. Recovering from drouth.

**228805.** No. G-268. Big Bend National Park. Elevation 5,300 feet. Drouth resistant, from Anthony 112 collection.

**228806 to 228808.** From Arizona.

**228806.** No. Y-3. Five miles southwest of Oracle. Elevation 4,400 feet.

**228807.** No. Y-10. Three miles northeast of Noon Creek Camp. Elevation 5,300 feet.

**228808.** No. Y-24. One and eight-tenths miles east of Bellota Ranch. Elevation 4,300 feet.

**228809 to 228824.** *BOUTELOUA RADICOSA* (Fourn.) Griffiths **Purple grama.**

**228809** No. G-1160. Fifty miles southeast of Animas. Elevation 5,500 feet.

**228810 to 228817** From Arizona.

**228810.** No. G-1172. Texas Canyon, east of Tucson. Elevation 4,600 feet.

**228811.** No. G-1186. Thirty miles southwest of Tucson. Elevation 3,100 feet.

**228812.** No. G-1206. Six miles northeast of Tucson. Elevation 2,600 feet.

**228813.** No. G-1221. Twenty-three miles southeast of Tucson. Elevation 3,600 feet.

**228814.** No. G-1231. Thirty-nine miles southeast of Tucson. Elevation 2,400 feet.

**228815.** No. G-1234. Forty-two miles southeast of Tucson. Elevation 4,700 feet. Robust form.

**228816.** No. G-1255. Six miles east of Patagonia. Elevation 4,400 feet.

**228817.** No. G-1263. Ten miles northeast of Tucson. Elevation 3,200 feet.

**228818 to 228823.** From Mexico.

**228818.** No. G-1319. Sierra de Alamos, Sonora. Elevation 2,000 feet.

**228819.** No. G-1341. North of Los Mochis, Sinaloa. Elevation 400 feet.

**228820.** No. G-1388. Fourteen miles north of Durango City. Elevation 6,000 feet.

**228821.** No. G-1400. Fifty-five miles north of Durango City. Elevation 5,950 feet.

**228822.** No. G-1418. Fifty-six miles south of Durango City. Elevation 6,600 feet.

**228823.** No. G-1445. Seventy miles north of Zacatecas City. Elevation 7,400 feet.

**228824.** No. Y-25. One and eight-tenths miles east of Bellota Ranch, Redington Road, Pima Co., Ariz. Elevation 4,300 feet.

**228412 to 229258—Continued**

- 228825 to 228835.** *BOUTELOUA ROTHROCKII* Vasey. **Rothrock grama.**
- 228825 to 228828.** From Arizona.
- 228825.** No. G-1167. Twelve miles east of Wilcox. Elevation 4,300 feet.
- 228826.** No. G-1183. Fifteen miles southwest of Tucson. Elevation 2,950 feet.
- 228827.** No. G-1188. Thirty miles southwest of Tucson. Elevation 3,100 feet.
- 228828.** No. G-1197. Willow Springs Ranch, Tucson. Elevation 3,300 feet.
- 228829 to 228833.** From Mexico.
- 228829.** No. G-1277. Puerto Conejos. North of Hermosillo, Sonora. Elevation 2,300 feet.
- 228830.** No. G-1285. Ten miles southeast of Hermosillo, Sonora. Elevation 800 feet.
- 228831.** No. G-1301. Obregon, Sonora. Elevation 425 feet.
- 228832.** No. G-1314. East of Navojoa, Sonora. Elevation 850 feet.
- 228833.** No. G-1406. Eighty miles north of Durango City. Elevation 5,900 feet.
- 228834.** No. XG-207. Page Ranch, 35 miles north of Tucson, Arizona and five miles west of Oracle. (Clones.)
- 228835.** No. XG-225. San Carlos Indian Reservation, 10 miles east of Globe. Elevation 3,500 feet. (Clones.)
- 228836.** *BOUTELOUA* sp.
- No. G-1032. White Sands National Monument, N. Mex. Elevation 3,700 feet. Near *B. breviseta*.
- 228837 to 228840.** From Mexico.
- 228837.** *BOUTELOUA* sp.
- No. G-1300. Thirty miles southeast of Guaymas, Sonora. Elevation 50 feet.
- 228838.** *BOUTELOUA* sp.
- No. G-1302. Obregon, Sonora. Elevation 650 feet.
- 228839.** *BOUTELOUA* sp.
- No. G-1307. Obregon, Sonora. Elevation 1,700 feet.
- 228840.** *BOUTELOUA* sp.
- No. G-1545. Ten miles north of Saltillo, Coahuila. Elevation 4,900 feet.
- 228841 and 228842.** *CATHESTECUM ERECTUM* Vasey & Hack. Poaceae. **Falsegrama.**
- 228841.** No. G-1276 B. Puerto Conejos, north of Hermosillo, Sonora, Mexico. Elevation 2,300 feet.
- 228842.** No. G-1284. Ten miles southeast of Hermosillo, Sonora, Mexico. Elevation 800 feet.
- 228843 to 228847.** *CENCHRUS MYOSUROIDES* H. B. K. Poaceae. **Big sandbar.**
- 228843.** No. G-1420. Fifty-six miles south of Durango City, Mexico. Elevation 6,600 feet.
- 228844.** No. G-1468. One hundred miles northeast of Durango City, Mexico. Elevation 5,000 feet.
- 228845.** No. G-1507. Eighteen miles north of Bermejillo, Durango, Mexico. Elevation 4,000 feet.
- 228846.** No. G-1543. Ten miles north of Saltillo, Coahuila, Mexico. Elevation 4,800 feet.
- 228847.** No. RF-158. Roadside seven miles northeast of Pleasanton, Tex.



**228412 to 229258—Continued****228848 and 228849.** *CHLORIS CHLORIDEA* (Presl) Hitchc. Poaceae.**Buryseed chloris.**

228848. No. G-1291. Seven miles east of La Colorada, Sonora, Mexico. Elevation 1,300 feet.

228849. No. G-1305. Northeast of Obregon, Sonora, Mexico. Elevation 1,300 feet.

**228850 and 228851.** *CHLORIS CUCULLATA* Bisch.**Hooded windmillgrass.**

228850. No. H-V-13. Ten miles north of Stephenville, Tex.

228851. No. RF-30. R &amp; F Grass Nursery, College Station, Tex.

**228852.** *CHLORIS LATISQUAMAEA* Nash.

No. G-1570. Sixteen miles east of Laredo, Tex. Elevation 700 feet.

**228853.** *COTTEA PAPPOPHOROIDES* Kunth Poaceae.**Cottagrass.**

No. G-1180. Six miles southwest of Tucson, Ariz. Elevation 2,500 feet.

**228854 and 228855.** *ELYMUS CANADENSIS* L. Poaceae.**Canadian wildrye.**

228854. No. G-1056. Mescalero, N. Mex. Elevation 6,400 feet.

228855. No. G-1102. Eighteen miles south of Albuquerque, N. Mex. Elevation 4,800 feet.

**228856 to 228858.** *ELYONURUS BARBICULMIS* Hack. Poaceae.

228856. No. G-1143. Twenty miles south of Animas, N. Mex. Elevation 4,850 feet.

228857. No. G-1368. Eight miles west of Durango City, Mexico. Elevation 7,100 feet.

228858. No. G-1444. Seventy miles north of Zacatecas City, Mexico. Elevation 7,400 feet.

**228859.** *ELYONURUS* sp.

No. G-1335. Sierra de Alamos, Sonora, Mexico. Elevation 3,150 feet.

**228860.** *ELYONURUS* sp.

No. G-1353. Mazatlan—Durango City, Sinaloa, Mexico. Elevation 6,400 feet.

**228861.** *ELYONURUS* sp.

No. G-1427. Seventy-four miles southeast of Durango City, Mexico. Elevation 8,000 feet.

**228862.** *ERAGROSTIS CURVULA* (Schrud.) Nees Poaceae.**Lovegrass.**

No. RF-273. Amarillo Experiment Station, Amarillo, Tex.

**228863 to 228872.** *ERAGROSTIS INTERMEDIA* Hitchc.**Lovegrass.**

228863. No. G-1244. Forty-four miles southeast of Tucson, Ariz. Elevation 5,000 feet.

228864. No. G-1272. Seventeen miles northeast of Tucson, Ariz. Elevation 4,800 feet.

228865. No. G-709 A. Between Torreon and Durango, Mexico. Recovered from mixture with *Bouteloua hirsuta* (P.I. 216356).228866. No. G-805 A. Between Durango City and Mazatlan, Mexico. Recovered from mixture with *Andropogon cirratus* (P.I. 216109).**228867 to 228872.** From Arizona.

228867. No. XG-209. Page Ranch, thirty-five miles north of Tucson. Elevation 3,200 feet. (Clones.)

228868. No. XG-219. Ten miles east of Superior. Elevation 4,700 feet. (Clones.)



**228412 to 229258—Continued****228863 to 228872—Continued****228867 to 228872—Continued**

**228869.** No. Y-7. Wet Canyon, Swift Trail. Elevation 6,300 feet.

**228870.** No. Y-12. Three miles northeast of Noon Creek Camp. Elevation 5,300 feet.

**228871.** No. Y-29. One and eight-tenths miles east of Bellota Ranch, Redington Road. Elevation 4,300 feet.

**228872.** No. Y-33. One mile west of Montezuma Canyon. Elevation 4,800 feet.

**228873.** *ERAGROSTIS TRICHODES* (Nutt.) Wood. **Lovegrass.**

No. H-V-343. George Studds Farm, one mile north of Knox City, Texas. From planting made by SCS in 1951. Good survival and recovery from drouth. (Clone.)

**228874.** *ERAGROSTIS* sp.

No. G-1128. One mile north of Animas, N. Mex. Elevation 4,400 feet.

**228875.** *ERAGROSTIS* sp.

No. G-1428. Seventy-four miles southeast of Durango City, Mexico. Elevation 8,000 feet.

**228876.** *ERAGROSTIS* sp.

No. G-1547. Seventy-five miles north of Saltillo, Coahuila, Mexico. Elevation 4,300 feet.

**228877.** *ERAGROSTIS* sp.

No. G-179A. Base of rock pile, Davis Mountains, Tex. Elevation 6,000 feet. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216218).

**228878.** *ERIANTHUS* sp. Poaceae.

No. XG-222. Ten miles east of Superior, Ariz. Plant to three feet high, coarse, large plume type head. Elevation 4,700 feet. (Clones.)

**228879.** *ERIOCHLOA GRACILIS* (Fourn.) Hitchc. Poaceae. **Southwestern cupgrass.**

No. XG-257. Seven miles west of Ozona, Tex. Elevation 2,500 feet. (Clones.)

**228880.** *ERIOCHLOA SERICEA* (Scheele) Munro. **Texas cupgrass.**

No. H-V-352. Haskell.

**228881.** *DIGITARIA ISCHAEMUM* (Schreb.) Muhl. Poaceae. **Smooth crabgrass.**

No. G-1242. Forty-four miles southeast of Tucson, Ariz. Elevation 5,000 feet.

**228882.** *ERIOCHLOA* sp. Poaceae.

No. G-1342. One mile east of Mazatlan, Sinaloa, Mexico. Elevation 50 feet.

**228883.** *FESTUCA* sp. Poaceae.

No. G-1320. Sierra de Alamos, Sonora, Mexico. Elevation 2,300 feet.

**228884 to 228909.** *HETEROPOGON CONTORTUS* (L.) Beauv. ex Roem. & Schult. Poaceae. **Tanglehead.**

**228884 to 228889.** From Arizona.

**228884.** No. G-1176. Texas Canyon, east of Tucson. Elevation 4,600 feet.

**228885.** No. G-1187. Thirty miles southwest of Tucson. Elevation 3,100 feet.

**228886.** No. G-1190. Eight miles northwest of Tucson. Elevation 2,700 feet.

**228887.** No. G-1219. Eleven miles northeast of Tucson. Elevation 3,100 feet.

**228888.** No. G-1233. Thirty-nine miles southeast of Tucson. Elevation 4,200 feet.

**228889.** No. G-1625. Ten miles northeast of Tucson. Elevation 3,200 feet.

**228412 to 229258—Continued****228884 to 228909—Continued****228890 to 228906. From Mexico.**

**228890.** No. G-1276 A. Puerto Conejos. North of Hermosillo, Sonora. Elevation 2,300 feet.

**228891.** No. G-1290. Four miles east of La Colorada, Sonora. Elevation 1,400 feet.

**228892.** No. G-1294. Ten miles east of La Colorada, Sonora. Elevation 1,450 feet.

**228893.** No. G-1311. Mountains east of Navojoa. Elevation 700 feet.

**228894.** No. G-1317. Sierra de Alamos, Sonora. Elevation 2,000 feet.

**228895.** No. G-1324. Sierra de Alamos, Sonora. Elevation 2,600 feet.

**228896.** No. G-1391. Fourteen miles north of Durango City. Elevation 6,000 feet.

**228897.** No. G-1399. Fifty-five miles north of Durango City. Elevation 5,950 feet.

**228898.** No. G-1404. Sixty miles north of Durango City. Elevation 6,000 feet.

**228899.** No. G-1472. One hundred and fourteen miles northeast of Durango City. Elevation 4,700 feet.

**228900.** No. G-1477. One hundred and thirty-three miles northeast of Durango City. Elevation 4,600 feet.

**228901.** No. G-1485. Seventeen miles west of Bermejillo, Durango. Elevation 4,100 feet.

**228902.** No. G-1523. Sixty-four miles west of Saltillo, Coahuila. Elevation 4,000 feet.

**228903.** No. G-1546. Ten miles north of Saltillo, Coahuila. Elevation 4,900 feet.

**228904.** No. G-1554. Seventy-nine miles north of Saltillo. Elevation 4,000 feet.

**228905.** No. G-1556. One hundred miles north of Saltillo, Coahuila. Elevation 1,500 feet.

**228906.** No. G-1560. Two hundred and seventeen miles north of Saltillo. Elevation 1,900 feet.

**228907.** No. G-1575. Twenty miles east of Laredo, Tex. Elevation 800 feet.

**228908.** No. G-1576. Fifty-five miles east of Laredo, Tex. Elevation 800 feet.

**228909.** No. Y-5. Five miles southwest of Oracle, Pinal Co., Ariz. Elevation 4,400 feet.

**228910. HETEROPOGON sp. Poaceae.**

No. G-1310. Mountains northeast of Obregón City, Sonora, Mexico. Elevation 1,700 feet.

**228911. HETEROPOGON MELANOCARPUS (Ell.) Benth. Poaceae.**

**Sweet tanglehead.**

No. G-1312. Mountains east of Navojoa, Sonora, Mexico. Elevation 700 feet.

**228912. HETEROPOGON sp.**

No. G-1322. Sierra de Alamos, Sonora, Mexico. Elevation 2,300 feet.

**228913. HETEROPOGON sp.**

No. G-1338. Sierra de Alamos, Sonora, Mexico. Elevation 3,150 feet.

**228914. HETEROPOGON CONTORTUS (L.) Beauv. ex Roem & Schult. Tanglehead.**

No. G-1339. Sierra de Alamos, Sonora, Mexico. Elevation 3,200 feet.

**228412 to 229258—Continued****228915. HETEROPOGON sp.**

No. G 1345. Mazatlan—Durango City, Sinaloa, Mexico. Elevation 450 feet.

**228916 to 228923. HILARIA BELANGERI (Steud.) Nash Poaceae. Curlymesquite.**

228916. No. G-1225. Twenty-three miles southeast of Tucson, Ariz. Elevation 3,600 feet.

228917. No. G-1230. Thirty-nine miles southeast of Tucson, Ariz. Elevation 4,200 feet.

228918. No. G-1254. Six miles east of Patagonia, Ariz. Elevation 4,400 feet.

228919. No. G-1402. Fifty-five miles north of Durango City, Mexico. Elevation 5,950 feet.

228920. No. H-V-11. Ten miles north of Stephenville, Tex. Surviving under dry conditions on thin soil.

228921. No. H-V-355. Haskell.

228922. No. XG-204. Page Ranch, 35 miles north of Tucson, Ariz. Plants large, bunchy, scattered.

228923. No. XG-231. Ten miles west of Duncan, Ariz. Plant bunchy; only one in area. Elevation 3,000 feet. (Clones.)

**228924 to 228930. HILARIA JAMESII (Torr.) Benth. Galleta.**

228924. No. G-1043. Six miles northeast of Tularosa, N. Mex. Elevation 4,900 feet.

228925. No. G-1085. Twenty miles west of Carrizozo, N. Mex. Elevation 5,700 feet.

228926. No. G-1093. Fifteen miles east of San Antonio, Tex. Elevation 5,050 feet.

228927. No. G-1106. Thirty miles south of Vaughn, N. Mex. Elevation 6,000 feet.

228928. No. G-1115. Twenty miles east of Albuquerque, N. Mex. Elevation 7,550 feet.

228929. No. XG-199. Six miles south of Pearce, Ariz. Elevation 5,000 feet.

228930. No. XG-232. Ten miles west of Duncan, Ariz. Elevation 3,000 feet.

**228931 to 228950. HILARIA MUTICA (Buckl.) Benth. Tobosa.**

228931. No. G-1115a. Thirty-five miles east of Deming, N. Mex. Elevation 4,400 feet.

228932. No. G-1124. One mile north of Animas, N. Mex. Elevation 4,400 feet. Spikelets white.

228933. No. G-1125. One mile north of Animas, N. Mex. Elevation 4,400 feet. Spikelets brown.

228934. No. G-1126. One mile north of Animas, N. Mex. Elevation 4,400 feet. Spikelets purple.

228935. No. G-1127. One mile north of Animas, N. Mex. Elevation 4,400 feet. Extra large form.

228936. No. G-1229. Thirty-seven miles southeast of Tucson, Ariz. Elevation 4,050 feet.

228937. No. G-1479. Nine miles west of Bermejillo, Durango, Mexico. Elevation 4,000 feet.

228938. No. G-1505. Eighteen miles north of Bermejillo, Mexico. Elevation 4,000 feet.



**228412 to 229258—Continued****228931 to 228950—Continued**

**228939.** No. G-1514. Thirty-eight miles north of Bermejillo, Mexico. Elevation 3,900 feet. Very dry area.

**228940.** No. G-1518. Sixty-two miles east of Torreón, Coahuila, Mexico. Elevation 3,800 feet.

**228941.** No. XG-170. Eleven miles west of Sanderson, Tex. Elevation 2,800 feet.

**228942.** No. XG-181. Ten miles west of Van Horn, Tex. Elevation 4,100 feet.

**228943.** No. XG-188. Jornada Experimental Range, N. Mex. Two miles northwest of South Well. Elevation 4,000 feet. (Clones.)

**228944.** No. XG-190. Fourteen miles from Lordsburg, N. Mex. Elevation 4,300 feet.

**228945.** No. XG-229. Twenty miles east of Safford, Ariz. Elevation 3,000 feet.

**228946.** No. XG-241. Forty-four miles west of Artesia, N. Mex. Elevation 4,000 feet.

**228947.** No. XG-247. Thirty-five miles southeast of Carlsbad, N. Mex. Elevation 3,000 feet.

**228948.** No. XG-250. Twenty-five miles southeast of Pecos, Tex. Elevation 2,800 feet.

**228949.** No. XG-252. Thirty-four miles east of Fort Stockton, Tex. Elevation 2,800 feet.

**228950.** No. Y-16. One mile north of Cochise County line, Ariz. Elevation 4,000 feet.

**228951 and 228952.** *HILARIA RIGIDA* (Thurb.) Benth.

**Big galleta.**

**228951.** No. XG-212. Pinnacle Peak Store, Ariz. Twenty-one miles northeast of Scottsdale. Plants large, bushlike, coarse; found only in protected area. Elevation 1,000 feet.

**228952.** No. XG-214. Pinnacle Peak Store, Ariz., 21 miles northeast of Scottsdale. Elevation 1,000 feet.

**228953.** *HILARIA SWALLENII* Cory

No. G-1151. Thirty-five miles south of Animas, N. Mex. Elevation 5,100 feet.

**228954.** *HILARIA* sp.

No. G-1214. Seven miles northeast of Tucson, Ariz. Elevation 2,650 feet.

**228955.** *HILARIA* sp.

No. G-1344. Mazatlán, Sinaloa, Mexico. Elevation 400 feet.

**228956.** *HILARIA* sp.

No. G-1373. Ten miles west of Durango City, Mexico. Elevation 7,400 feet.

**228957.** *LASIACIS DIVARICATA* (L.) Hitchc. Poaceae.

**Florida tibisee.**

No. G-1323. Sierra de Álamos, Sonora, Mexico. Elevation 2,300 feet. Plant to five feet high.

**228958 to 229002.** *LEPTOCHLOA DUBIA* (H.B.K.) Nees Poaceae.

**Green sprangletop.**

**228958 to 228960.** From New Mexico.

**228958.** No. G-1026. One mile northeast of Organ. Elevation 500 feet.

**228959.** No. G-1072. Five miles west of Hondo. Elevation 5,600 feet.

**228960.** No. G-1161. Fifty miles southeast of Animas. Elevation 5,500 feet.



## 228412 to 229258—Continued

## 228958 to 229002—Continued

## 228961 to 228967. From Arizona.

228961. No. G-1166. Fifteen miles east of Wilcox. Elevation 4,300 feet.  
 228962. No. G-1171. Texas Canyon, east of Tucson. Elevation 4,600 feet.  
 228963. No. G-1204. Willow Springs Ranch, Tucson. Elevation 3,300 feet.  
 228964. No. G-1217. Ten miles northeast of Tucson. Elevation 2,800 feet.  
 228965. No. G-1220. Eleven miles southeast of Tucson. Elevation 3,100 feet.  
 228966. No. G-1222. Twenty-three miles southeast of Tucson. Elevation 3,600 feet.  
 228967. No. G-1247. Two miles east of Patagonia. Elevation 4,200 feet. Plant to four feet high.

## 228968 to 228979. From Mexico.

228968. No. G-1357. Four miles west of Durango City. Elevation 6,400 feet.  
 228969. No. G-1392. Fourteen miles north of Durango City. Elevation 6,000 feet.  
 228970. No. G-1398. Fifty-five miles north of Durango City. Elevation 5,950 feet.  
 228971. No. G-1410. Eighty miles north of Durango City. Elevation 5,900 feet.  
 228972. No. G-1421. Fifty-six miles south of Durango City. Elevation 6,600 feet.  
 228973. No. G-1457. Fifty-seven miles northeast of Durango City. Elevation 6,500 feet.  
 228974. No. G-1459. Fifty-three miles northeast of Durango City. Elevation 6,300 feet.  
 228975. No. G-1487. Forty-six miles west of Bermejillo, Durango. Elevation 5,400 feet. Dry mountain side.  
 228976. No. G-1535. Twenty miles southwest of Saltillo, Coahuila. Elevation 6,300 feet.  
 228977. No. G-1544. Ten miles north of Saltillo, Coahuila. Elevation 4,900 feet.  
 228978. No. G-1550. Seventy-four miles north of Saltillo, Coahuila. Elevation 4,300 feet.  
 228979. No. G-1501. Sixty-seven miles west of Bermejillo, Durango. Elevation 6,400 feet. Dry area.  
 228980. No. G-59-A. Big Spring State Park, Tex. Recovered from mixture with *Stipa leucotricha* (P.I. 217312).  
 228981. No. G-179-B. Base of rock pile, Davis Mountains, Ariz. Elevation 6,000 feet. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216218).  
 228982. No. G-207-A. Five miles north of Shafter, Tex. Recovered from mixture with *Heteropogon contortus* (P.I. 217098).  
 228983. No. G-229-A. Thirty-nine miles north of Chihuahua City, Mexico. Elevation 4,900 feet. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216220).  
 228984. No. G-249-A. Nine miles south of Alpine, Tex. Elevation 4,800 feet. Recovered from mixture with *Bouteloua hirsuta* (P.I. 216345).  
 228985. No. G-313-A. Camino de la Sierra de Arteaga, 15 miles southeast of Saltillo, Mexico. Elevation 5,000 feet. Recovered from mixture with *Stipa* sp. (P.I. 216590).

**228412 to 229258—Continued****228958 to 229002—Continued**

**228886.** No. G-350-A. Experiment Station, Marfa, Tex. Recovered from mixture with *Hilaria swallenii* (P.I. 216438).

**228987 to 228995.** From Mexico.

**228987.** No. G-389-A. North of Chihuahua City. Recovered from mixture with *Bouteloua hirsuta* (P.I. 216349).

**228988.** No. G-415-A. North of Chihuahua City. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216240).

**228989.** No. G-444-A. Between Chihuahua City and Cuauhtemoc. Recovered from mixture with *Eragrostis* sp. (P.I. 216409).

**228990.** No. G-455-A. Recovered from mixture with *Andropogon wrightii* (P.I. 216149).

**228991.** No. G-520-A. North of Durango City. Recovered from mixture with *Panicum obtusum* (P.I. 216509).

**228992.** No. G-535-A. South of Durango City. Recovered from mixture with *Andropogon wrightii* (P.I. 216151).

**228993.** No. G-552-A. South of Durango City. Recovered from mixture with *Chloris* sp. (P.I. 216285).

**228994.** No. G-715-A. Between Durango City and Zacatecas City. Recovered from mixture with *Andropogon* sp.

**228995.** No. G-764-A. Between Durango and Parral. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216280).

**228996.** No. XG-196. Five miles southeast of Ciricahua National Monument, Arizona. Elevation 5,000 feet.

**228997.** No. XG-258. Seven miles west of Ozona, Texas. Elevation 2,500 feet.

**228998.** No. RF-79. Ten miles north of Alpine, Texas.

**228999.** No. RF-20. Sonora, Mexico.

**229000 to 229002.** From Arizona.

**229000.** No. Y-1. Five miles southwest of Oracle, Pinal County. Elevation 4,400 feet.

**229001.** No. Y-31. One mile west of Montezuma Canyon. Elevation 4,800 feet.

**229002.** No. Y-32. One mile west of Montezuma Canyon. Elevation 4,800 feet.

**229003.** *LEPTOCHLOA* sp. Poaceae.

No. G-1297. Twenty-nine miles southeast of Guaymas, Sonora, Mexico. Elevation 20 feet.

**229004 and 229005.** *LEPTOLOMA COGNATUM* (Schult.) Chase Poaceae.

Fall witchgrass.

**229004.** No. H-V-12. Ten miles north of Stephenville, Tex.

**229005.** No. H-V-364. Haskell, Tex.

**229006 and 229007.** *LYCURUS PHLEOIDES* H.B.K. Poaceae.

**229006.** No. Y-8. Wet Canyon, Ariz. Elevation 6,300 feet.

**229007.** No. Y-27. One and eight-tenths miles east of Bellota Ranch, Ariz. Elevation 4,300 feet.

**229008 to 229010.** *MUHLENBERGIA EMERSLEYI* Vasey Poaceae.

Muhly.

From Texas.

**228412 to 229258—Continued****229008 to 229010—Continued**

**229008.** No. RF-71. Mrs. Mueller's Ranch, 17 miles north of Marfa.

**229009.** No. Y-4. Five miles southwest of Oracle, Pinal County. Elevation 4,400 feet.

**229010.** No. Y-9. Wet Canyon Trail, Graham Mountains. Elevation 6,300 feet.

**229011 to 229036. MUHLENBERGIA PORTERI** Scribn.**Bushy muhly.**

**229011.** No. G-1001. Fort Stockton, Tex. Elevation 4,500 feet.

**229012.** No. G-1030. One mile northeast of Organ, N. Mex. Elevation 5,000 feet.

**229013.** No. G-1080. Twenty-five miles west of Carrizozo, N. Mex. Elevation 5,500 feet.

**229014 to 229018. From Arizona.**

**229014.** No. G-1182. Fifteen miles southwest of Tucson. Elevation 2,950 feet.

**229015.** No. G-1194. Eight miles northwest of Tucson. Elevation 2,700 feet.

**229016.** No. G-1200. Willow Springs Ranch, Tucson. Elevation 3,300 feet.

**229017.** No. G-1213. Seven miles northwest of Tucson. Elevation 2,650 feet.

**229018.** No. G-1228. Twenty-three miles southeast of Tucson. Elevation 3,600 feet.

**229019 to 229024. From Mexico.**

**229019.** No. G-1321. Sierra de Álamos, Sonora. Elevation 2,300 feet.

**229020.** No. G-1359. Four miles west of Durango City. Elevation 6,400 feet.

**229021.** No. G-1469. One hundred miles northeast of Durango City. Elevation 5,000 feet.

**229022.** No. G-1475. One hundred and thirty-seven miles northeast of Durango City. Elevation 4,600 feet.

**229023.** No. G-1486. Seventeen miles west of Bermejillo, Durango. Elevation 4,100 feet.

**229024.** No. G-1492. Fifty-four miles west of Bermejillo. Elevation 5,200 feet. Dry area.

**229025.** No. XG-173. Headquarters, Big Bend National Park, Tex. Elevation 4,700 feet.

**229026.** No. XG-182. A & M College Ranch, Albuquerque, N. Mex. Elevation 3,500 feet.

**229027 to 229031. From Arizona.**

**229027.** No. XG-205. Page Ranch, 35 miles north of Tucson. Elevation 3,200 feet.

**229028.** No. XG-211. Fifteen miles south of Florence. Sandy-loam soil. Elevation 2,000 feet.

**229029.** No. XG-213. Pinnacle Peak store, 21 miles northeast of Scottsdale. Elevation 1,000 feet.

**229030.** No. XG-223. San Carlos Indian Reservation, 10 miles east of Globe. Elevation 3,500 feet.

**229031.** No. XG-228. Twenty miles east of Safford. Sandy-loam soil. Elevation 3,000 feet.

**228412 to 229258—Continued****229011 to 229036—Continued**

**229032.** No. XG-238. Thirty-five miles northeast of Las Cruces, New Mexico. Gravelly-loam soil. Elevation 4,500 feet.

**229033.** No. XG-26. Thirty-five miles southeast of Carlsbad. Clay-loam soil. Elevation 3,000 feet.

**229034.** No. XG-249. Twenty-five miles southeast of Pecos, Texas. Clay-loam soil. Elevation 2,800 feet.

**229035.** No. XG-254. Thirty-four miles east of Ft. Stockton, Texas. Elevation 2,800 feet.

**229036.** No. Y-18. Three and four-tenths miles south of Graham County line, Arizona. Elevation 4,000 feet.

**229037.** *MUHLENBERGIA RIGIDA* (H.B.K.) Kunth

**Purple muhly.**

No. G-1363. Seven miles west of Durango City, Mexico. Elevation 6,900 feet.

**229038.** *MUHLENBERGIA* sp.

No. G-1369. Eight miles west of Durango City, Mexico. Elevation 7,100 feet.

**229039.** *MUHLENBERGIA* sp.

No. G-1378. Fourteen miles west of Durango City, Mexico. Elevation 7,400 feet.

**229040.** *MUHLENBERGIA* sp.

No. G-1382. Fourteen miles west of Durango City. Elevation 7,400 feet.

**229041.** *CENCHRUS MYOSUROIDES* H.B.K.

**Big sandbur.**

No. G-1422. Sixty-six miles southeast of Durango City, Mexico. Elevation 7,700 feet.

**229042.** *MUHLENBERGIA* sp.

No. G-1460. Seventy-three miles northeast of Durango City, Mexico. Elevation 6,300 feet.

**229043.** *MUHLENBERGIA* sp.

No. G-1528. Ten miles southeast of Saltillo, Coahuila. Elevation 6,300 feet.

**229044.** *MUHLENBERGIA* sp.

No. G-1534. Ten miles southeast of Saltillo, Coahuila, Mexico. Elevation 6,300 feet.

**229045 and 229046.** *ORYZOPSIS HYMENOIDES* (Roem. & Schult.) Ricker **Poaceae.**  
**Indian ricegrass.**

**229045.** No. G-1108. Five miles southwest of Vaughn, N. Mex. Elevation 5,900 feet.

**229046.** No. XG-240. White Sands National Monument, N. Mex., 13 miles west of Alamogordo. Growing in pure sand. Elevation 4,500 feet.

**229047.** *ORYZOPSIS* sp.

No. G-1425. Sixty-six miles southeast of Durango City, Mexico. Elevation 7,700 feet.

**229048.** *ORYZOPSIS* sp.

No. G-1440. Seventy miles north of Zacatecas City, Mexico. Elevation 7,400 feet.

**229049 to 229056.** *PANICUM HALLII* Vasey **Poaceae.**

**229049.** No. G-1148. Twenty-one miles south of Animas, N. Mex. Elevation 4,940 feet.

**229050.** No. G-1498. Sixty-seven miles west of Bermejillo, Durango, Mexico. Elevation 6,400 feet. Dry area.

**229051.** No. G-1566. Twenty-two miles southeast of Eagle Pass, Tex. Elevation 1,000 feet.



**228412 to 229258—Continued****229049 to 229056—Continued**

**229052.** No. G-1568. Sixteen miles east of Laredo, Mexico. Elevation 700 feet.

**229053 to 229056.** From Texas.

**229053.** No. H-V-205-A. Nine miles south of Seymour, Baylor County. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216870).

**229054.** No. H-V-354-A. Haskell. Recovered from mixture with *Sporobolus airoides* (P.I. 217303).

**229055.** No. H-V-372. Knox Pittard Ranch, nine miles east and one mile north of Anson.

**229056.** No. G-256. North of Eggshell Peak, 15 miles north of Terlingua. Elevation 2,800 feet

**229057 to 229081** PANCIMUM OBTUSUM H.B.K. Vine-mesquite.

**229057.** No. G-1005. Fort Stockton, Tex. Elevation 4,500 feet.

**229058.** No. G-1016. Four miles east of Sierra Blanca, Tex. Elevation 4,200 feet.

**229059.** No. G-1028. One mile northeast of Organ, N. Mex. Elevation 500 feet.

**229060.** No. G-1040. Two miles north of Alamogordo, N. Mex. Elevation 4,200 feet.

**229061.** No. G-1067. One mile northwest of Hondo, Tex. Elevation 5,200 feet.

**229062.** No. G-1096. Thirty miles west of Carrizozo, N. Mex. Elevation 5,400 feet.

**229063 to 229067.** From New Mexico.

**229063.** No. G-1103. Eighteen miles south of Albuquerque. Elevation 4,800 feet.

**229064.** No. G-1122. Twenty-five miles southeast of Lordsburg. Elevation 4,400 feet.

**229065.** No. G-1129. One mile north of Animas. Elevation 4,400 feet.

**229066.** No. G-1140. Twenty miles south of Animas. Elevation 4,850 feet.

**229067.** No. G-1153. Thirty-five miles south of Animas. Elevation 5,100 feet.

**229068.** No. G-1202. Willow Springs Ranch, Tucson, Ariz. Elevation 3,300 feet.

**229069.** No. G-1248. Two miles east of Patagonia, Ariz. Elevation 4,200 feet

**229070 to 229076.** From Mexico.

**229070.** No. G-1403. Fifty-five miles north of Durango City. Elevation 5,950 feet.

**229071.** No. G-1417. Fifty-six miles south of Durango City. Elevation 6,600 feet.

**229072.** No. G-1449. Sixty-seven miles west of Bermejillo, Durango. Elevation 6,400 feet. Dry area.

**229073.** No. G-1509. Eighteen miles north of Bermejillo, Durango. Elevation 4,000 feet.

**229074.** No. G-1512. Thirty-eight miles north of Bermejillo, Durango. Elevation 3,900 feet.

**228412 to 229258—Continued****229057 to 229081—Continued****229079 to 229076—Continued**

229075. No. G-1521. Sixty-two miles east of Torreón, Coahuila. Elevation 3,800 feet.

229076. No. G-1526. Sixty-four miles west of Saltillo, Coahuila. Elevation 4,000 feet.

**229077 to 229081. From Texas.**

229077. No. G-1565. Twenty-two miles southeast of Eagle Pass. Elevation 1,000 feet.

229078. No. H-V-92. Albany.

229079. No. H-V-258. Cottle County.

229080. No. H-V-310. Old Glory.

229081. No. H-V-385. Anson.

**229082. PANICUM REVERCHONI Vasey**

No. FR-344. Location unknown.

**229083 to 229087. PANICUM VIRGATUM L.****Switchgrass.**

229083. No. G-309-A. Fifteen miles southeast of Saltillo, Coahuila, Mexico. Elevation 5,000 feet. Recovered from mixture with *Andropogon scoparius* (P.I. 216147).

**229084 to 229087. From Texas.**

229084. No. H-V-267. C. L. Wright Farm, north of Paducah. From plantings made in 1947, recovering from drouth.

229085. No. H-V-341. Knox City.

229086. No. RF-126. Muleshoe.

229087. No. RF-13. H. W. Green Ranch, six miles west of Perren, SCS Nursery at Mineral Wells.

**229088. PANICUM sp.**

No. G-1352. Mazatlán—Durango City, Sinaloa, Mexico. Elevation 6,400 feet.

**229089 to 229096. PAPPOPHORUM BICOLOR Fourn. Poaceae. Pink pappusgrass.****229089 to 229092. From Mexico.**

229089. No. G-1481. Nine miles west of Bermejillo, Durango. Elevation 4,000 feet.

229090. No. G-1517. Sixty-two miles east of Torreón, Coahuila. Elevation 3,800 feet.

229091. No. G-1525. Sixty-four miles west of Saltillo, Coahuila. Elevation 4,000 feet.

229092. No. G-1559. Two hundred and nine miles north of Saltillo, Coahuila. Elevation 1,700 feet.

229093. No. G-1561. Twenty-two miles southeast of Eagle Pass, Tex. Elevation 1,000 feet.

229094. No. G-330-A. Ten miles south of Nueva Rosita, Mexico. Recovered from mixture with *Panicum* sp. (P.I. 216519).

229095. No. RF-10. Guy Combs Ranch, 24 miles south of Marathon, Tex.

229096. No. RF-449. Eagle Pass, Maverick County, Tex.

**229097 to 229107. PAPPOPHORUM MUCRONULATUM Nees Whiplash pappusgrass.**

229097. No. G-1004. Fort Stockton, Texas. Elevation 4,500 feet.

229098. No. G-1179. Six miles southwest of Tucson, Arizona. Elevation 2,500 feet.

**228412 to 229258—Continued****229097 to 229107—Continued**

**229099 to 229103.** From Mexico.

**229099** No. G-1478. Nine miles west of Bermejillo, Durango. Elevation 4,000 feet.

**229100** No. G-1491. Fifty-four miles west of Bermejillo, Durango. Elevation 5,200 feet. Dry area.

**229101.** No. G-1504. Eighteen miles north of Bermejillo, Durango. Elevation 4,000 feet.

**229102.** No. G-1511. Thirty-two miles north of Bermejillo, Durango. Elevation 3,900 feet. Dry area.

**229103.** No. G-1519. Sixty-two miles east of Torreón, Coahuila. Elevation 3,800 feet.

**229104.** No. G-32-A. Experiment Station Sonora, Tex. Elevation 2,600 feet. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216812)

**229105.** No. G-303-A. Forty miles west of Monterrey, Nuevo León, Mexico. Elevation 5,000 feet. Recovered from mixture with *Andropogon sacchariodes*. (P.I. 216128).

**229106** No. RF-4. Guy Combs, Jr. Ranch, 24 miles south of Marathon, Tex.

**229107.** No. RF-412. San Manuel, Tex.

**229108.** *PAPPOPHORUM* sp.

No. G-320-A. Fifteen miles north of Saltillo, Mexico. Recovered from mixture with *Trichachne californica* (P.I. 216618).

**229109.** *PAPPOPHORUM* sp.

No. G-850-A. Between Durango and Torreón. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216292).

**229110.** *PASPALUM Plicatulum* Michx. Poaceae.

No. G-1333. Sierra de Álamos, Sonora, Mexico. Elevation 2,800 feet.

**229111.** *Pennisetum ciliare* (L.) Link. Poaceae.

**Buffelgrass.**

No. G-1574. Twenty miles east of Laredo, Tex. Elevation 800 feet.

**229112.** *Pennisetum* sp.

No. G-1347. On road between Mazatlán and Durango City, Mexico.

**229113.** *Poa* sp. Poaceae.

No. XG-220. Ten miles east of Superior, Ariz. Elevation 4,700 feet.

**229114 and 229115.** *Stipa speciosa* Trin. & Rupr. Poaceae. **Desert needlegrass.**

**229114.** No. Y-13. Three miles northeast of Noon Creek Camp, Ariz. Elevation 5,300 feet.

**229115.** No. Y-26. Two miles east of Bellota Ranch, Ariz. Elevation 4,300 feet.

**229116.** *Stipa* sp.

No. G-1303. Northeast of Obregón City, Sonora Mexico. Elevation 725 feet.

**229117.** *Stipa* sp.

No. G-1313. East of Navojoa, Sonora, Mexico. Elevation 700 feet.

**229118.** *Stipa* sp.

No. G-1502. Sixty-seven miles west of Bermejillo, Durango, Mexico. Elevation 6,400 feet. Dry area.

**229119.** *Stipa* sp.

No. G-1439. Seventy miles north of Zacatecas City, Mexico. Elevation 7,400 feet.

**228412 to 229258—Continued****229120.** STIPA sp.

No. G-1529. Ten miles southeast of Saltillo, Coahuila, Mexico. Elevation 6,300 feet.

**229121.** STIPA sp.

No. G-1531. Ten miles southeast of Saltillo, Coahuila, Mexico. Elevation 6,300 feet.

**229122.** STIPA sp.

No. G-1540. Twenty miles southeast of Saltillo, Coahuila, Mexico. Elevation 6,900 feet.

**229123 to 229125.** SETARIA GRISEBACHII Fourn. Poaceae. **Millet.**

**229123.** No. G-1063. Six miles east of Ruidoso, N. Mex. Elevation 6,400 feet.

**229124.** No. G-1066. Six miles east of Ruidoso, N. Mex. Elevation 6,400 feet.

**229125.** No. G-1249. Two miles east of Patagonia, Ariz. Elevation 4,200 feet.

**229126 to 229158.** SETARIA MACROSTACHYA H.B.K. **Millet.**

**229126.** No. G-1003. Fort Stockton, Tex. Elevation 4,500 feet.

**229127 to 229131.** From New Mexico.

**229127.** No. G-1012. Four miles east of Sierra Blanca. Elevation 4,200 feet.

**229128.** No. G-1017. Mesquite. Elevation 4,000 feet.

**229129.** No. G-1020. Fifteen miles northeast of Las Cruces. Elevation 4,500 feet.

**229130.** No. G-1041. Two miles north of Alamogordo. Elevation 4,200 feet.

**229131.** No. G-1044. Six miles northeast of Tularosa. Elevation 4,900 feet.

**229132.** No. G-1070. One mile northwest of Hondo, Tex. Elevation 5,200 feet.

**229133 to 229135.** From New Mexico.

**229133.** No. G-1083. Twenty-five miles west of Carrizozo. Elevation 5,500 feet.

**229134.** No. G-1089. Two miles south of Socorro. Elevation 4,800 feet.

**229135.** No. G-1133. Twenty miles south of Animas. Elevation 4,850 feet.

**229136 to 229141.** From Arizona.

**229136.** No. G-1181. Six miles southwest of Tucson. Elevation 2,500 feet.

**229137.** No. G-1185. Nineteen miles southwest of Tucson. Elevation 3,300 feet. Plants to 4 feet high.

**229138.** No. G-1195. Nine miles northwest of Tucson. Elevation 2,900 feet.

**229139.** No. G-1199. Willow Springs Ranch, Tucson. Elevation 3,300 feet.

**229140.** No. G-1215. Eight miles northeast of Tucson. Elevation 2,700 feet.

**229141.** No. G-1223. Twenty-three miles southeast of Tucson. Elevation 3,600 feet.

**229142 to 229152.** From Mexico.

**229142.** No. G-1296. Twenty-nine miles southeast of Guaymos, Sonora. Elevation 20 feet.



## 228412 to 229258—Continued

## 229126 to 229158—Continued

## 229142 to 229152—Continued

229143. No. G-1409. Eighty miles north of Durango City. Elevation 5,900 feet.
229144. No. G-1423. Sixty-six miles southeast of Durango City. Elevation 7,700 feet.
229145. No. G-1470. One hundred miles northeast of Durango City. Elevation 5,000 feet.
229146. No. G-1474. One hundred and thirty-three miles northeast of Durango City. Elevation 4,600 feet.
229147. No. G-1480. Nine miles west of Bermejillo, Durango. Elevation 4,000 feet.
229148. No. G-1488. Forty-six miles west of Bermejillo, Durango. Elevation 5,400 feet. Dry mountainside.
229149. No. G-1490. Fifty-four miles west of Bermejillo, Durango. Elevation 5,200 feet. Dry area.
229150. No. G-1513. Thirty-eight miles north of Bermejillo, Durango. 3,900 feet. Dry area.
229151. No. G-1522. Sixty-two miles east of Torreón, Coahuila. Elevation 3,800 feet.
229152. No. G-1527. Sixty-four miles west of Saltillo, Coahuila. Elevation 4,000 feet.
229153. No. G-1564. Twenty-five miles southeast of Eagle Pass, Tex. Elevation 1,000 feet.
229154. No. G-1572. Sixteen miles east of Laredo, Tex. Elevation 700 feet.
229155. No. G-714-A. Between Torreón and Durango, Mexico. Recovered from mixture with *Andropogon* sp. (P.I. 216188).
229156. No. H-V-117. Stephens County, Tex.
229157. No. RF-460. Edinberg, Hidalgo County, N. Mex. Small type.
229158. No. Y-17. Three and four-tenths miles south of Graham County line, Ariz.
229159. *SETARIA* sp.  
No. G-1170. Twelve miles east of Wilcox, Ariz. Elevation 4,300 feet.
229160. *SETARIA MACROSTACHYA* H.B.K.  
No. G-1306. Mountains northeast of Obregón, Sonora, Mexico. Elevation 1,400 feet.
229161. *SETARIA SCHEELI* (Steud.) Hitchc.  
No. G-1346. Between Mazatlán and Durango City, Mexico. Elevation 1,275 feet.
229162. *SETARIA* sp.  
No. G-1367. Seven miles west of Durango City, Mexico. Elevation 6,900 feet.
229163. *SETARIA* sp.  
No. G-1471. One hundred and eight miles northwest of Durango City, Mexico. Elevation 5,000 feet.
229164. *SETARIA* sp.  
No. G-1548. Seventy-four miles north of Saltillo, Coahuila, Mexico. Elevation 4,300 feet.
229165. *SETARIA* sp.  
No. G-1551. Seventy-four miles north of Saltillo, Coahuila, Mexico. Elevation 4,300 feet.

**228412 to 229258—Continued****229166. SETARIA sp.**

No. G-371-A. Between Durango and Zacatecas, Mexico. Recovered from mixture with *Muhlenbergia* sp. (P I 216488).

**229167. SETARIA sp.**

No. XG-244. Thirty-five miles southeast of Carlsbad, N. Mex. Elevation 3,000 feet.

**229168. SETARIA sp.**

No. XG-251. Thirty-four miles east of Ft. Stockton, N. Mex. Elevation 2,800 feet.

**229169 to 229 72. SORGHASTRUM NUTANS (L.) Nash. Poaceae.****Yellow Indiangrass.**

**229169.** No. G-1097. Ten miles south of Albuquerque, N. Mex. Elevation 4,700 feet.

**229170 to 229172.** From Texas.

**229170.** No. H-V-45-A. Stephenville. Recovered from mixture with *Bouteloua* sp. (P.I. 217021).

**229171.** No. H-V9. Ten miles north of Stephenville. Growing in drainage area.

**229172.** No. RF-120. Nine miles west of Menard.

**229173 to 229177. SPOROBOLUS AIROIDES Torr. Poaceae.****Dropseed.**

**229173.** No. G-288-A. Five miles south of Marathon, Texas. Elevation 3,600 feet. Recovered from mixture with *Andropogon saccharoides* (P.I. 216713).

**229174.** No. G-1042. Six miles northeast of Tularosa, N. Mex. Elevation 4,900 feet.

**229175.** No. XG-187. Jornada Experimental Range, N. Mex. Elevation 4,000 feet.

**229176.** No. RF-66. Two miles west of Balmorhea, Tex.

**229177.** No. RF-529. Muleshoe Wildlife Refuge, near Muleshoe, Tex.

**229178 and 229179. SPOROBOLUS ASPER (Michx.) Kunth<sup>†</sup>****Tall dropseed.**

**229178.** No. RF-36. From farm near Highway 50 northwest of traffic circle, College Station, Tex.

**229179.** No. RF-362. Tex. (Location unknown.)

**229180 and 229181. SPOROBOLUS CRYPTANDRUS (Torr.) A. Gray****Sand dropseed.**

**229180.** No. H-V-74. Breckenridge Golf Course, Breckenridge, Tex. Good growth and maturing seed in area with late rainfall.

**229181.** No. Y-21. One mile southeast of Wilcox, Ariz. Elevation 4,200 feet.

**229182. SPOROBOLUS FLEXUOSUS (Thurb.) Rydb.****Mesa dropseed.**

No. XG-183. New Mexico A & M College Ranch, pasture 13, 0.5 mile south of Seldom Well. Elevation 3,500 feet.

**229183. SPOROBOLUS VIRGINICUS (L.) Kunth****Seashore dropseed.**

No. G-1295. Beach Miramar, Guaymas, Sonora, Mexico.

**229184. SPOROBOLUS sp.**

No. G-1019. Fifteen miles northeast of Las Cruces, N. Mex. Elevation 4,500 feet.

**229185. SPOROBOLUS sp.**

No. G-1034. White Sands National Monument, N. Mex. Elevation 3,700 feet.

**229186. SPOROBOLUS sp.**

No. G-1035. White Sands National Monument, N. Mex. Elevation 3,700 feet. Nea *S. pulvinatus*.

**228412 to 229258—Continued****229187. SPOROBOLUS sp.**

No. G-652-B. Municipio de Arteaga. Fifteen miles east of Saltillo, Mexico. Elevation 6,000 feet. Recovered from mixture with *Enneapogon dextvauxii* (P.I. 216396).

**229188 to 229194. TRACHYPOGON MONTUFARI (H.B.K.) Nees Poaceae.****Crinkleawn.**

**229188.** No. G-1175. Texas Canyon, east of Tucson, Arizona. Elevation 4,600 feet.

**229189.** No. G-1252. Six miles east of Patagonia, Arizona. Elevation 4,400 feet.

**229190 to 229194.** From Mexico.

**229190.** No. G-1326. Sierra de Álamos, Sonora, Mexico. Elevation 2,600 feet.

**229191.** No. G-1334. Sierra de Álamos, Sonora. Elevation 2,600 feet.

**229192.** No. G-1337. Sierra de Álamos, Sonora. Elevation 2,600 feet.

**229193.** No. G-1371. Eight miles west of Durango City. Elevation 7,100 feet.

**229194.** No. G-1442. Seventy miles north of Zacatecas City. Elevation 7,400 feet.

**229195. TRACHYPOGON sp.**

No. G-1349. Between Mazatlán and Durango City, Mexico. Elevation 2,400 feet.

**229196. TRACHYPOGON sp.**

No. G-1351. Between Mazatlán and Durango City, Mexico. Elevation 6,300 feet.

**229197 to 229226. TRICHACHNE CALIFORNICA (Benth.) Chase Poaceae.**

**229197 to 229199.** From New Mexico.

**229197.** No. G-1018. Fifteen miles northeast of Las Cruces. Elevation 4,500 feet.

**229198.** No. G-1023. One mile northeast of Organ. Elevation 5,000 feet.

**229199.** No. G-1145. Twenty-one miles south of Animas. Elevation 4,940 feet.

**229200 to 229203.** From Arizona.

**229200.** No. G-1177. Six miles southwest of Tucson. Elevation 2,500 feet.

**229201.** No. G-1192. Eight miles northwest of Tucson. Elevation 2,700 feet.

**229202.** No. G-1205. Six miles northeast of Tucson. Elevation 2,600 feet.

**229203.** No. G-1209. Six miles northeast of Tucson. Elevation 2,600 feet.

**229204 to 229209.** From Mexico.

**229204.** No. G-1288. Two miles east of La Colorada, Sonora. Elevation 1,350 feet.

**229205.** No. G-1463. Ninety-eight miles northeast of Durango City. Elevation 5,200 feet.

**229206.** No. G-1510. Eighteen miles north of Bermejillo, Durango. Elevation 4,000 feet.

**229207.** No. G-1516. Sixty-two miles east of Torreón, Coahuila. Elevation 3,800 feet.

**229208.** No. G-1524. Sixty-four miles west of Saltillo, Coahuila. Elevation 4,000 feet.



## 228412 to 229258—Continued

## 229197 to 229226—Continued

## 229204 to 229209—Continued

229209. No. G-1552. Seventy-four miles north of Saltillo, Coahuila. Elevation 4,300 feet.

## 229210 to 229214. From Texas.

229210. No. G-1563. Twenty-two miles southeast of Eagle Pass. Elevation 1,000 feet.

229211. No. G-1573. Twenty miles east of Laredo. Elevation 800 feet.

229212. No. XG-109-B. Twenty-seven miles north of Herrville. Elevation 2,500 feet. Recovered from mixture with *Panicum obtusum* (P.I. 216517).

229213. No. G-97-A. Twenty-three miles south of Morton. Recovered from mixture with *Bouteloua curtipendula* (P.I. 216816).

229214. No. G-244-A. Two miles south of Alpine. Elevation 4,800 feet. Recovered from mixture with *Andropogon barbinodis* (P.I. 216674).

229215. No. G-651-A. Municipio de Arteaga, Camino a las Vigas. Fifteen miles east of Saltillo, Mexico. Elevation 6,000 feet. Recovered from mixture with *Setaria macrostachya* (P.I. 216566).

229216. No. H-V-256. Cottle County, Tex.

229217. No. H-V-368. Knox Pittard Ranch, nine miles east and one mile north of Anson, Tex. Heavily grazed.

229218. No. XG-185. Sunmaford Mountain, north side, near headquarters, A & M College Ranch, Albuquerque, New Mexico. Elevation 4,500 feet.

229219. No. XG-206. Page Ranch, 35 miles north of Tucson, Arizona and five miles west of Oracle. Elevation 3,200 feet.

229220. No. SG-210. Fifteen miles south of Florence, Ariz. Elevation 2,000 feet.

229221. No. XG-227. Twenty miles east of Safford, Ariz. Elevation 3,000 feet.

229222. No. XG-235. Thirty-five miles northeast of Las Cruces, N. Mex. Elevation 4,500 feet.

229223. No. RF-74. Mrs. Mueller's Ranch, 5 miles north of Marfa, Tex. Shallow clay-loam.

229224. No. RF-450. Five miles southeast of Asherton, Tex. Dry flat.

229225. No. RF-413. San Manuel, Tex.

229226. No. Y-30. One mile west of Montezuma Canyon, Ariz. Elevation 4,800 feet.

229227. *TRICHACHNE* sp.

No. G-623-A. Between Torreón and Saltillo, Coahuila, Mexico. Recovered from mixture with *Stipa* sp. (P.I. 216592).

229228 to 229231. *TRICHLORIS MENDOCINA* (Phil.) Kurtz Poaceae.

229228. No. G-1039. Two miles north of Alamogordo, N. Mex. Elevation 4,200 feet.

229229. No. G-1520. Sixty-two miles east of Torreón, Coahuila, Mexico. Elevation 3,800 feet.

229230. No. G-1562. Twenty-two miles southeast of Eagle Pass, Tex. Elevation 1,000 feet.

229231. No. G-1569. Sixteen miles east of Laredo, Tex. Elevation 700 feet.



**228412 to 229258—Continued**

**229232.** *TRICHLORIS PLURIFLORA* Fourn.

No. RF-454. Laredo, Tex.

**229233.** *TRICHLORIS* sp.

No. G-1299. Thirty miles southeast of Guaymas, Sonora, Mexico. Elevation 50 feet.

**229234.** *TRIDENS ALBESCENS* (Vasey) Woot. & Standl. Poaceae.

No. H-V-351-A. Six miles southwest of Haskell, Tex. Recovered from mixture with *Buchloe dactyloides* (P.I. 217051).

**229235 to 229237.** *TRIDENS MUTICUS* (Torr.) Nash

**229235.** No. G-67-A. McKenzie State Park, Lubbock, Tex. Recovered from mixture with *Bouteloua gracilis* (P.I. 216926).

**229236.** No. XG-234. Ten miles west of Duncan, Ariz. Elevation 3,000 feet

**229237.** No. XG-248. Thirty-five miles southeast of Carlsbad, N. Mex. Elevation 3,000 feet.

**229238.** *TRIDENS PULCHELLUS* (H.B.K.) Hitchc.

No. Y-19. Three and four-tenths miles south of Graham County line, Highway 666, Ariz. Elevation 4,000 feet.

**229239.** *TRIDENS* sp.

No. G-1343. One mile east of Mazatlán, Sinaloa, Mexico. Elevation 50 feet.

**229240.** *TRIPSACUM DACTYLOIDES* L. Poaceae.

**Eastern gamagrass.**

No. G-6773. Rosenberg, Tex.

**229241.** *TRIPSACUM LANCEOLATUM* Rupr.

**Mexican gamagrass.**

No. G-1348. Between Mazatlan and Durango City, Mexico. Elevation 2,400 feet.

**229242.** (Undetermined.)

No. G-1269. Seventeen miles northeast of Tucson, Ariz. Elevation 4,800 feet.

**229243.** (Undetermined.)

No. XG-193. Five miles southeast of Chiricahua National Monument, Cochise County, Ariz. Elevation 5,000 feet.

**229244.** *ACACIA ANGUSTISSIMA* (Mill.) Kuntze Mimosaceae.

**Prairie acacia.**

No. 1280. Ninety-seven miles south of Nogales, Sonora, Mexico. Elevation 2,300 feet.

**229245.** *BRONGNIARTIA* sp. Fabaceae.

No. 1316. Near Tesopaco, northeast of Obregón City, Sonora, Mexico. Elevation 1,700 feet.

**229246 and 229247.** *CASSIA FASCICULATA* Michx. Caesalpiniaceae.

**229246.** No. 1241. Forty-four miles southeast of Tucson, Ariz. Elevation 5,000 feet.

**229247.** No. 1318. Sierra de Álamos, Sonora, Mexico. Elevation 2,000 feet.

**229248.** *CASSIA* sp.

No. 1189. Three miles northwest of Tucson, Ariz. Elevation 2,500 feet.

**229249.** *CASSIA* sp.

No. 1282. Twenty miles northeast of Hermosillo, Sonora, Mexico. Elevation 800 feet.

**229250.** *CASSIA* sp.

No. 1330. Sierra de Álamos, Sonora, Mexico. Elevation 2,700 feet.

**228412 to 229258—Continued**

**229251.** *DESMANTHUS SUBULATUS* (Britton & Rose) Wiggins Mimosaceae.

No. 1283. Thirty-one miles northeast of Hermosillo and twenty miles west of Ures, Sonora, Mexico. Elevation 850 feet.

**229252.** *DESMANTHUS VIRGATUS* (L.) Willd.

No. 1298. Thirty miles southeast of Guaymas, Sonora, Mexico. Elevation 5,000 feet. Perennial to three feet high.

**229253.** *DESMANTHUS* sp.

No. 1326. Forty-two miles southeast of Tucson, Ariz. Elevation 4,750 feet.

**229254.** *DESMANTHUS* sp.

No. 1260. Eight miles east of Patagonia, Ariz. Elevation 4,550 feet.

**229255.** *ERYTHRINA FLABELLIFORMIS* Kearney Fabaceae. **Western coralbean.**

No. 1579. Sierra de Álamos, near Álamos, Sonora, Mexico. Elevation 3,000 feet. Possible ornamental.

**229256.** *SOPHORA SECUNDIFLORA* (Ortega) DC. Fabaceae. **Mescal-bean.**

No. 1578. Near Ranch Experiment Station, Sonora, Tex. Elevation 2,100 feet.

**229257.** *TEPHROSIA* sp. Fabaceae.

No. 1332. Sierra de Álamos, Sonora, Mexico. Elevation 2,800 feet.

**229258.** (Undetermined.)

No. 1315. Mountains east of Navojoa, Sonora, Mexico. Elevation 850 feet. An herbaceous legume.

**229259 to 229277.** *ORYZA SATIVA* L. Poaceae. **Rice.**

From India. Seed presented by the Botanist to the Government of the United Provinces, Nagina. Received Oct. 11, 1955.

**229259.** C. 2-10. **229269.** T. 22A.

**229260.** N. 12. **229270.** T. 23.

**229261.** N. 10B. **229271.** T. 36.

**229262.** N. 32. **229272.** T. 43.

**229263.** 'Santha'. **229273.** T. 88.

**229264.** T. 1. **229274.** T. 100.

**229265.** T. 3. **229275.** T. 136.

**229266.** T. 9. **229276.** T. 137.

**229267.** T. 17. **229277.** T. 138.

**229268.** T. 21.

**229278.** *HEVEA BRASILIENSIS* (A. Juss.) Muell.-Arg. Euphorbiaceae. **Para rubber tree.**

From Florida. Plant growing at the United States Plant Introduction Station, Miami. Numbered Aug. 29, 1955.

Grown from seeds received from the Firestone Plantations, West Liberia.

**229279 to 229288.** *SACCHARUM* (hybrids). Poaceae. **Sugarcane.**

From Puerto Rico. Budwood presented by the Agricultural Experiment Station, Rio Piedras. Received Oct. 12, 1955.

**229279.** 'Cana Criolla'. **229284.** P.R. 803.

**229280.** D. 433. **229285.** P.R. 914.

**229281.** M.P.R. 42. **229286.** P.R. 925.

**229282.** M.P.R. 340. **229287.** P.R. 999.

**229283.** P.O.J. 2806. **229288.** 'Rayada Uino'.

**229289. COFFEA ARABICA L. Rubiaceae. Arabian coffee.**

From Costa Rica. Seeds presented by the Instituto Inter-Americano de Ciencias Agrícolas, Turrialba. Received Oct. 12, 1955.

'Salvador Strain'.

**229290 to 229292. PRUNUS AMYGDALUS Batsch Amygdalaceae. Almond.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 14, 1955.

Collected Sept. 16, 1955.

From Shahrud, Khorasan Province.

**229290.** Col. No. 15806. 'Badam'. Long variety from mixed grafted and seeded stocks.

**229291.** Col. No. 15807. Hard-shelled variety from mixed grafted and seeded stocks.

**229292.** Col. No. 15809. Thin-shelled, long variety.

**229293. ORMOSIA sp. Fabaceae.**

From Panama. Seeds presented by Ciro de la Victoria, Panama City. Received Oct. 14, 1955.

**229294 to 229311.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 14, 1955.

**229294. ASTRAGALUS GOSSYPINUS Fisch. Fabaceae. Milkvetch.**

Col. No. 15560. Kuhe Safid near Esfahan.

**229295. ASTRAGALUS sp.**

Col. No. 15002. Three miles south of Dehbid, along road from Abadeh to Shiraz. Elevation 7,000 feet. Limestone rocks. Low, spreading, spiny, perennial shrub.

**229296. ASTRAGALUS CERASOCRENUS (Tourn.) L. Milkvetch.**

Col. No. 15568. Dastana, Chaharmahal. Small bush, containing a good quality tragacanth.

**229297. ASTRAGALUS sp.**

Col. No. 15569. Dastana, Chaharmahal. Elevation 6,700 feet. Limestone. Low, spreading bush, yielding good quality of gum tragacanth.

**229298. ASTRAGALUS sp.**

Col. No. 15634. 'Shirineh'. Musiabad, west of Esfahan. Elevation 6,500 feet. Sedimentaries. Bush to 15 inches high; thorns thick; branchlets erect; flowers red; yields fair grade of gum tragacanth.

**229299. ASTRAGALUS sp.**

Col. No. 15680. Fifteen to 20 miles east of Tehran, in Alborz foothills. Limestone. Bush to 1 foot high and 2 feet broad; good gum tragacanth variety.

**229300. ASTRAGALUS sp.**

Col. No. 15691. Gach Sar, Alborz Range. Elevation 6,800 feet. Limestone. Bush to 14 inches high; twigs yellowish; root large with good gum cylinder about 0.5 inch in diameter.

**229301. ASTRAGALUS sp.**

Col. No. 15692. Gach Sar, Alborz Range. Elevation 6,800 feet. Gum cylinder small.

**229294 to 229311—Continued****229302.** *CICER SPIROCERAS* Jaub. & Spach. Fabaceae.

Col. No. 15032. Mountain pass above Dasht Arjan, Fars.

**229303 to 229309.** *CUCUMIS MELO* L. Cucurbitaceae.**Muskmelon.****229303.** Col. No. 15407. Market in Maragheh, Azerbaijan.**229304.** Col. No. 15495. Market in Ardabil, Azerbaijan.**229305.** Col. No. 15812. Market, Shahrud, Khorasan Province.**229306.** Col. No. 15813. Shahrud, Khorasan Province.**229307.** Col. No. 15814. Near Firuzkuh, Khorasan Province.**229308.** Col. No. 15822. Market, Tehran.**229309.** Col. No. 14805. Bam, southeastern section.**229310.** *PRUNUS SPINOSISSIMA* (Bunge) Franch. Amygdalaceae. **Wild almond.**

Col. No. 15033. 'Argan'. Mountain slope between Dasht Arjan and Kazerun, Fars. Elevation 5,000 feet. Limestone. Spreading spiny shrub; used as grafting stock.

**229311.** *PRUNUS* sp.

Col. No. 15074. 'Argan'. About 6 miles east of Sarvestan, Fars. Elevation 6,000 feet. Rocky, limey soil. Few-branched, erect shrub; seed large, abundant.

**229312 to 229362.** *GLYCINE MAX* (L.) Merr. Fabaceae. **Soybean.**

From Japan. Seed presented by the Ministry of Agriculture and Forestry, Tokyo.

Received Oct. 17, 1955.

**229312.** 'Akita No. 32'.**229338.** 'Matsuura'.**229313.** 'Akitaani'.**229339.** 'Meguro'.**229314.** 'Ani 31'.**229340.** 'Nadeshiko No. 1'.**229315.** 'Asahi Nobo No. 48'.**229341.** 'Nooki No. 1'.**229316.** 'Buko-mame No. 14'.**229342.** 'Nookishirobana'.**229317.** 'Daruma 202'.**229343.** 'Nonaka No. 1'.**229318.** 'Darumamasari'.**229344.** 'Norin No. 4'.**229319.** 'Dekisugi No. 1'.**229345.** 'Norin No. 5'.**229320.** 'Ginjiro'.**229346.** 'Ojiro'.**229321.** 'Hai-daizu'.**229347.** 'Ouu No. 4'.**229322.** 'Hajinomi'.**229348.** 'Ouu N. 12'.**229323.** 'Ichigowase'.**229349.** 'Rikuu No. 27'.**229324.** 'Itachi'.**229350.** 'Sakyuaomane'.**229325.** 'Iwate No. 1'.**229351.** 'Senrya'.**229326.** 'Iwate No. 2'.**229352.** 'Shakkin-nashi'.**229327.** 'Iwateyagi 201'.**229353.** 'Shirataka'.**229328.** 'Kairyogionbo'.**229354.** 'Shirazaya No. 1'.**229329.** 'Kairyoshirome'.**229355.** 'Shirobana-Sai No. 1'.**229330.** 'Kanegawawase'.**229356.** 'Shiro-hachikoku No. 2'.**229331.** 'Kasugazairai'.**229357.** 'Shirohachi-koku'.**229332.** 'Kiizaya'.**229358.** 'Soden-daizu'.**229333.** 'Kimusume No. 77'.**229359.** 'Tohoku No. 1'.**229334.** 'Kinnari No. 1'.**229360.** 'Tamatsukuri No. 11'.**229335.** 'Kinoshita-mame'.**229361.** 'Tokishi'.**229336.** 'Kinusume'.**229362.** 'Yogetus No. 1'.**229337.** 'Kurosaya'.



**229363 to 229399.**

From New York. Plants distributed by the Regional Plant Introduction Station, New York State Agricultural Experiment Station, Geneva. Numbered Oct. 18, 1955.

Native and naturalized northeastern species collected by the University of Maine, Agricultural Experiment Station, Orono; New York Agricultural Experiment Station, Geneva; University of New Hampshire Agricultural Experiment Station, Durham.

**229363 to 229372.** *BROMUS INERMIS* Leyss. Poaceae.

**Smooth brome.**

From Griswold Farm. Claremont, N. H. Collected from 10 to 12 years old stands.

**229363.** No. 1.

**229368.** No. 6.

**229364.** No. 2.

**229369.** No. 7.

**229365.** No. 3.

**229370.** No. 8.

**229366.** No. 4.

**229371.** No. 9.

**229367.** No. 5.

**229372.** No. 10.

**229373.** *KALMIA POLIFOLIA* Wang. Ericaceae.

**Bog-laurel.**

No. B-4. Wallace Cove Bog, Lubec, Maine. Plants compact; flowers large, clear pink and deep purplish-pink.

**229374.** *RHODODENDRON CANADENSE* (L.) Torr. Ericaceae

**Rhodora.**

No. B-3. Wallace Cove Bog, Lubec, Maine. Flowers purple to deep reddish purple; petals large.

**229375 and 229376.** *RHODODENDRON MAXIMUM* L.

**Rosebay rhododendron.**

From Standish, Cumberland County, Maine. About 1 mile south of Sebago Lake.

**229375.** No. B-1. Seedlings from a vigorous colony, locally known as the "White group".

**229376.** No. B-2. Seedlings from a vigorous colony, locally known as the "Pink group".

**229377 to 229391.** *RUBUS CANADENSIS* L. Rosaceae.

**Blackberry.**

From New Hampshire.

**229377 to 229384.** Smooth type.

**229377.** No. D-1. Packer's Falls Rd., Strafford County, Durham. Plants vigorous; stems smooth; inflorescences nonglandular.

**229378.** No. 2. Pittsburg, Coos County, Clarksville. Plant smooth with slender prickles; inflorescence glabrous or nearly so, dark purple; completely dormant in April.

**229379.** No. 3. North Stratford. Canes tall, vigorous, dark purplish-red with scattered prickles; inflorescence smooth, glandular.

**229380.** No. 4. Franconia. Along river in gravelly loam and by roadside in village. Plants to 6 feet high; inflorescence nearly glabrous.

**229381.** No. 5. Franconia Notch, Franconia. About 2 miles south of Profile. Canes to 6 feet high, vigorous, no prickles; inflorescences perfectly smooth, glandular.

**229382.** No. 1. Along Simon's Stream, Columbia, Coos County, and openings along wooded road. Canes nearly smooth, purplish; inflorescences nonglandular.

**229383.** No. 2. Along edge of Simon's Stream, Coos County. Canes nearly smooth, purplish; inflorescences nonglandular.

**229384.** No. 3. South along edge of Simon's Stream, Coos County. Canes nearly smooth, purplish; inflorescences nonglandular.

**229385 to 229391.** From New York. Thornless type.

**229385.** No. 12. South Hill, Virgil.

**229363 to 229399—Continued****229377 to 229391—Continued****229385 to 229391—Continued**

**229386.** No. 13. South Hill, Virgil. Plant slightly to moderately prickly.

**229387.** No. 15 to 17. Caroline Center. Plant sparsely thorny.

**229388.** No. 21. Raquette Lake, Adirondack Mountains. Plants nearly prickless.

**229389.** No. 22. Indian Lake, Adirondack Mountains. Plants sparsely growing, but strongly prickly.

**229390.** No. 23. Lewey Lake, Adirondack Mountains. Plant variably prickly.

**229391.** No. 27. Forked Lake, Adirondack Mountains. Plant nearly prickless.

**229392 to 229399. TRIFOLIUM REPENS L. Fabaceae.****Whiteclover.**

From H. Townsend Farm, Lebanon, New Hampshire. Material from 6- to 8-year-old stands.

**229392.** No. 1.**229396.** No. 5.**229393.** No. 2.**229397.** No. 6.**229394.** No. 3.**229398.** No. 7.**229395.** No. 4.**229399.** No. 8.**229400 to 229415.**

From England. Seeds presented by the Royal Horticultural Society, Wisley, Ripley, Surrey. Received Feb. 21, 1954.

**229400.** RHODODENDRON ABERCONWAYI Cowan Ericaceae.**229401.** RHODODENDRON AMBIGUUM Hemsl.**229402.** RHODODENDRON CAERULEUM Levl.**229403.** RHODODENDRON CAMPYLOGYNUM Hook. f.**229404.** RHODODENDRON CHARITOPES Balf. & Farrar**229405.** RHODODENDRON CHARITOSTREPTUM Balf. & Ward**229406.** RHODODENDRON GLAUCOPHYLLUM Rehder**229407.** RHODODENDRON HIPPOPHAEOIDES Balf. & Smith**229408.** RHODODENDRON NIPPONICUM Matsum**229409.** RHODODENDRON RADINUM Balf. & Smith**229410.** RHODODENDRON RUSSATUM Balf. & Forr.**229411.** RHODODENDRON AUGUSTINII Hemsl.**229412.** RHODODENDRON RACEMOSUM Franch.**Mayflower rhododendron****229413.** RHODODENDRON RUBIGINOSUM Franch.**229414.** RHODODENDRON SEARSIAE Rehd. & Wils.**229415.** RHODODENDRON YUNNANENSE Franch.**229416 to 229423. TRIFOLIUM SUBTERRANEUM L. Fabaceae.****Subterranean clover.**

From Australia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received Oct. 18, 1955.

**229416.** 'Bacchus March 93/10'.**229420.** 'Tallarook 94/6'.**229417.** 'Bacchus Marsh 93/14'.**229421.** 'Tallarook 94/8'.**229418.** 'Northam 2nd Early 97A/4'.**229422.** 'Yabba North 92/5'.**229419.** 'Northam 2nd Early 97A/7'.**229423.** 'Yabba North 92/19'.

**229424 to 229469.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 18, 1955.

**229424.** *DACTYLIS GLOMERATA* L. Poaceae.

**Orchardgrass.**

Col. No. 15329. Eleven miles east of Sanandaj, Kurdistan. July 28, 1955. Elevation 8,500 feet.

**229425.** *AGROPYRON ORIENTALE* (L.) Roem. & Schult. Poaceae.

**Wheatgrass.**

Col. No. 15345. North of Sanandaj, Kurdistan. July 29, 1955. Elevation 6,700 feet.

**229426.** *AGROPYRON* sp.

Col. No. 15480. South piedmont of Kuhe Sahand, Azerbaijan. Aug. 5, 1955. Elevation 7,500 feet. Small, leafy culms.

**229427.** *ALOPECURUS PRATENSIS* L. Poaceae.

Col. No. 15039. Dasht Arjan, west of Shiraz, Fars. June 15, 1955. Elevation 6,600 feet.

**229428.** *ALOPECURES* sp.

Col. No. 15235. Southwest of Dastana, south of Shahr-Kord. July 10, 1955. Elevation 10,700 feet.

**229429.** *ALOPECURUS* sp.

Col. No. 15236. Southwest of Dastana, south of Shahr-Kord. July 10, 1955. Elevation 7,500 feet.

**229430.** *ALOPECURUS* sp.

Col. No. 15479. East base of Kuhe Sahand, Azerbaijan. Aug. 5, 1955. Elevation 10,000 feet. Wire-leaved, sod-forming perennial.

**229431.** *ALOPECURUS TEXTILIS* Boiss.

Col. No. 15521. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 10,000 feet. Plant tufted.

**229432.** *ALOPECURUS* sp.

Col. No. 15601. East base of Kuhe Zard, Chaharmahal. Aug. 27, 1955. Elevation 8,500 feet.

**229433.** *ANDROPOGON* sp. Poaceae.

Col. No. 14982. South of Abadeh, Fars. June 7, 1955. Elevation 8,000 feet. Tender leafy perennial with bulbous roots growing in schist rocks.

**229434.** *ANDROPOGON* sp.

Col. No. 15234. Southwest of Dastana, south of Shahr-Kord. July 10, 1955. Elevation 9,000 feet. Small, delicate, caespitose perennial.

**229435.** *ANDROPOGON* sp.

Col. No. 15417. Southeast base of Kuhe Sahand, Azerbaijan. Aug. 3, 1955. Elevation 9,000 feet.

**229436.** *BOTHRIOCHLOA ISCHAEMUM* (L.) Keng. Poaceae. **Turkestan bluestem.**

Col. No. 15498. Nineteen miles west of Ardabil along road to Meshginshahr, Azerbaijan. Aug. 9, 1955. Elevation 7,000 feet.

**229437.** *AVENA* sp. Poaceae.

Col. No. 15022. Chelchesmi, 30 miles west of Shiraz. June 14, 1955. Elevation 6,500 feet.

**229438.** *BROMUS STERILIS* L. Poaceae.

**Poverty brome.**

Col. No. 14848. Tehran. May 22, 1955. Elevation 4,000 feet. Stooling grass with leafy base.



## 229424 to 229469—Continued

229439. *BROMUS TOMENTELLUS* Boiss.

Brome.

Col. No. 15449. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955.  
Elevation 10,000 feet.

229440. *BROMUS* sp.

Col. No. 15508. Northeast slope of Kuhe Savalan, Azerbaijan. Aug. 9, 1955.  
Elevation 9,500 feet. Tall, red-stemmed perennial.

229441. *BROMUS TOMENTOSUS* Trin.

Brome.

Col. No. 15538. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955.  
Elevation 11,000 feet. Small, tender tufts.

229442. *CATABROSA AQUATICA* Beauv. Poaceae.

Col. No. 15103. Near Komehr, Fars. June 28, 1955. Elevation 8,800 feet.  
Aquatic perennial.

229443. *CYNODON DACTYLON* (L.) Pers. Poaceae.

Bermudagrass.

Col. No. 15621. Faridan, Shahrestan-e. Aug. 28, 1955. Elevation 7,000 feet.

229444. *DACTYLIS GLOMERATA* L. Poaceae.

Orchardgrass.

Col. No. 15413. Piedmont of Kuhe Sahand, Azerbaijan. Aug. 3, 1955. Elevation 8,000 feet.

229445. *KOELERIA* sp. Poaceae.

Col. No. 15505. Northeast slope of Kuhe Savalan, Azerbaijan. Aug. 9, 1955.  
Elevation 9,500 feet.

229446. *DACTYLIS GLOMERATA* L. Poaceae.

Orchardgrass.

Col. No. 15555. Kuhe Sion between Ardabil and Tabriz. Aug. 12, 1955. Elevation 8,000 feet.

229447. *HORDEUM BREVISUBULATUM* Trin. Poaceae.

Barley.

Col. No. 15249. Canyon above Dastana, south of Shahr-Kord. July 12, 1955.  
Elevation 7,500 feet. Sod-forming perennial.

229448. *ELYMUS* sp. Poaceae.

Col. No. 15321. Eleven miles east of Sanandaj, Kurdistan. July 28, 1955.  
Elevation 8,500 feet. Sod-forming grass.

229449. *ELYMUS* sp.

Col. No. 15513. Northeast slope of Kuhe Savalan, Azerbaijan. Aug. 9, 1955.  
Elevation 9,500 feet. Perennial, leafy, colonial, cespitose.

229450. *FESTUCA* sp. Poaceae.

Col. No. 15109. Kowkun Valley, Fars. June 28, 1955. Elevation 7,500 feet.  
Tufted perennial grass.

229451. *FESTUCA ARUNDINACEA* Schreb.

Tall fescue.

Col. No. 15171. Didigone, Fars. July 1, 1955. Elevation 6,800 feet.

229452. *FESTUCA* sp.

Col. No. 15250. Canyon above Dastana, south of Shahr-Kord. July 12, 1955.  
Elevation 7,500 feet. Turf-forming perennial.

229453. *FESTUCA* sp.

Col. No. 15309. Twenty miles east of Sanandaj, Kurdistan. July 28, 1955.  
Elevation 8,500 feet.

229454. *FESTUCA* sp.

Col. No. 15489. Kuhe Sion between Sarab and Ardabil, Azerbaijan. Aug. 8, 1955. Elevation 8,500 feet.



**229424 to 229469—Continued****229455. FESTUCA sp.**

Col. No. 15325. East of Sanandaj, Kurdistan. July 28, 1955. Elevation 8,500 feet.

**229456. FESTUCA sp.**

Col. No. 15540. Northeast side Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 11,000 feet. Short, fine-leaved perennial.

**229457. GLYCERIA sp. Poaceae.**

Col. No. 15217. Dastana, south of Shah-Kord. July 9, 1955. Elevation 6,800 feet. Hydrophytic, succulent, stoloniferous, broad-bladed perennial.

**229458. PUCCINELLIA SEVANENSIS Grossh. Poaceae.**

Col. No. 15264. Ten miles south of Esfahan, along road to Shiraz. July 16, 1955.

**229459. GLYCERIA sp. Poaceae.**

Col. No. 15492. Southwest of Arbabil, Azerbaijan. Aug. 8, 1955. Elevation 6,500 feet. Succulent hydrophyte.

**229460. HORDEUM TURKESTANICUM Nevski. Poaceae.****Barley.**

Col. No. 14964. South of Dehbid along road to Shiraz. June 5, 1955. Elevation 7,000 feet.

**229461. HORDEUM sp.**

Col. No. 15157. Didigone, Fars July 1, 1955. Elevation 6,800 feet. Meso-phytic perennial; palatable to livestock.

**229462. HORDEUM sp.**

Col. No. 15349. North of Sanadaj, Kurdistan. July 29, 1955. Elevation 6,700 feet.

**229463. KOELERIA CRISTATA (L.) Pers. Poaceae.**

Col. No. 15525. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 10,500 feet.

**229464. PHLEUM MONTANUM C. Koch. Poaceae.****Timothy**

Col. No. 15471. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 6, 1955. Elevation 10,000 feet. Perennial on rocky lava slope.

**229465. POA sp. Poaceae.**

Col. No. 15531. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 10,500 feet.

**229466. POA sp.**

Col. No. 15537. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 11,000 feet. Small tufted perennial.

**229467. STIPA sp. Poaceae.**

Col. No. 15363. South of Maragheh, Kurdistan. July 30, 1955. Elevation 5,500 feet.

**229468. STIPA sp.**

Col. No. 15548. Northeast spur of Kuhe Savalan, Azerbaijan. Aug. 11, 1955. Elevation 8,000 feet.

**229469. VICIA<sup>1</sup>ERVILIA (L.) Willd. Fabaceae.****Bitter vetch.**

Col. No. 15830. Bavanat Valley, Fars. June, 1955. Elevation 6,000 feet. Irrigated.

**229470. BRASSICA OLERACEA var. CAPITATA L. Brassicaceae. Cabbage.**

From Turkey. Seeds presented by the Agricultural Attache, American Embassy, Ankara. Received Oct. 19, 1955.

**229471 and 229472.**

From Australia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received Oct. 19, 1955.

**229471.** *DACTYLIS GLOMERATA* L. Poaceae.

**Orchardgrass.**

C.P.I. 6845. Originally from Algeria.

**229472.** *DACTYLIS MARITIMA* Curtis

C.P.I. 9003. Originally from Algeria.

**229473 to 229504.**

From Iran. Seeds collected by H. S. Genty, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 19, 1955.

**229473.** *AGROPYRON INTERMEDIUM* (Host) Beauv. Poaceae.

**Intermediate wheatgrass.**

Col. No. 15333. Eleven miles east of Sanandaj, Kurdistan. July 28, 1955. Elevation 8,500 feet. Grows in large, vigorous clumps.

**229474.** *AGROPYRON* sp.

Col. No. 15483. Sarab, Azerbaijan. Aug. 8, 1955. Elevation 6,500 feet.

**229475.** *AGROPYRON INTERMEDIUM* (Host) Beauv.

**Intermediate wheatgrass.**

Col. No. 15484. Kuhe Sion, between Sarab and Ardabil, Azerbaijan. Aug. 8, 1955. Elevation 8,000 feet. Perennial with leafy culms.

**229476.** *LOLIUM PERENNE* L. Poaceae.

**Ryegrass**

Col. No. 15551. Market, Ardabil, Azerbaijan. Oct. 19, 1955. Elevation 6,000 feet.

**229477.** *AGROSTIS* sp. Poaceae.

Col. No. 15526. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 10,500 feet.

**229478.** *ALOPECURUS* sp. Poaceae.

Col. No. 15094. Northern ridge of Kuhe Barmeh Firuz, Fars. June 28, 1955. Elevation 10,000 feet.

**229479 and 229480.** *ALOPECURUS ARUNDINACEUS* Poir.

**229479.** Col. No. 15322. East of Sanandaj, Kurdistan. July 28, 1955. Elevation 8,500 feet. Coarse culms to 3 feet high.

**229480.** Col. No. 15512. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 9, 1955. Elevation 9,500 feet. Forms a deep ground cover.

**229481.** *ALOPECURUS TEXTILIS* Boiss.

Col. No. 15541. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 11,000 feet.

**229482.** *ALOPECURUS* sp.

Col. No. 15336. Twenty-two miles north of Sanandaj, Kurdistan. July 29, 1955. Elevation 6,700 feet.

**229483.** *BOTHRIOCHLOA ISCHAEMUM* (L.) Keng. Poaceae. **Turkestan bluestem.**

Col. No. 15254. Dastana, south of Shahr-Kord. July 12, 1955. Elevation 7,000 feet. Thriving, palatable perennial with long culms to 3 feet high.

**229484.** *ANDROPOGON* sp.

Col. No. 15519. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 10,000 feet.

**229485.** *BROMUS TECTORUM* L. Poaceae.

**Cheatgrass.**

Col. No. 14847. Tehran. May 22, 1955.

**229473 to 229504—Continued****229486 to 229489.** *BROMUS TOMENTELLUS* Boiss.**Brome.**

229486. Col. No. 15120. Kowkun Valley, Fars. June 28, 1955.

229487. Col. No. 15121. Kowkun Valley, Fars. June 28, 1955.

229488. Col. No. 15523. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 10,000 feet. Slender, tufted perennial; tuffaceous slope.

229489. Col. No. 15544. Northeast slope of Kuhe Savalan, Azerbaijan. Aug. 11, 1955. Elevation 9,500 feet.

**229490.** *CALAMAGROSTIS* sp. Poaceae.

Col. No. 15247. Canyon above Dastana, south of Shahr-Kord. July 12, 1955. Elevation 7,000 feet.

**229491.** *DESCHAMPSIA* sp. Poaceae.

Col. No. 15434. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Perennial; well liked by horses.

**229492.** *DESCHAMPSIA* sp.

Col. No. 15455. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Perennial; scattered on rocky slope.

**229493.** *DIANTHUS CARYOPHYLLUS* L. Silenaceae.**Carnation.**

Col. No. 15059. Estavanat, Fars. June 22, 1955. Elevation 7,000 feet.

**229494.** *ELEAGNUS ANGUSTIFOLIA* L. Elaeagnaceae.**Russian-olive.**

Col. No. 14933. Market, Esfahan. June 1, 1955. Small, glaucous-leaved tree; commonly planted along ditches.

**229495.** *ERAGROSTIS* sp. Poaceae.

Col. No. 14979. Limestone slope near Bavanat Valley, Fars. June 7, 1955. Elevation 7,500 feet. Xerophytic annual.

**229496.** *ERAGROSTIS* sp.

Col. No. 15297. Borujen, Chaharmahal Province. July 13, 1955. Elevation 6,500 feet.

**229497.** *FESTUCA* sp. Poaceae.

Col. No. 15019. Near Chelcheshmi, west of Shiraz. June 14, 1955. Elevation 6,500 feet. Perennial; leaves bluish, to 4 inches long.

**229498.** *FESTUCA* sp.

Col. No. 15126. Komehr Valley, Fars. June 29, 1955. Elevation 7,500 feet. Tufted perennial; roots strong.

**229499.** *FESTUCA* sp.

Col. No. 15156. Didigone, Fars. July 1, 1955. Elevation 6,800 feet.

**229500 and 229501.** *FESTUCA ARUNDINACEA* Schreb.**Tall fescue.**

229500. Col. No. 15212. Dastana, south of Shahr-Kord. July 9, 1955. Elevation 6,800 feet.

229501. Col. No. 15323. Eleven miles east of Sanandaj, Kurdistan. July 28, 1955. Elevation 8,500 feet. Broad-leaved perennial.

**229502.** *FESTUCA* sp.

Col. No. 15463. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Hydrophytic meadow fescue.

**229503.** *FESTUCA* sp.

Col. No. 15543. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 9,500 feet. Red-stemmed fescue on drier meadow slopes.

**229504.** *PUCCINELLIA* sp. Poaceae.

Col. No. 15265. South of Esfahan along road to Shiraz. July 16, 1955.



**229505 to 229510. SACCHARUM (hybrids). Poaceae. Sugarcane.**

From the British West Indies. Cuttings presented by the Central Sugar Cane Breeding Station, Barbados. Received Oct. 20, 1955.

229505. B. 39254.

229508. B. 45211.

229506. B. 45170.

229509. B. 45236.

229507. B. 45184.

229510. B. 45266.

**229511 to 229515.**

From Peru. Seeds presented by the United States Operation Mission, Lima. Received Oct. 19, 1955.

229511 to 229514. CARICA PAPAYA L. Caricaceae.

**Papaya.**

229511. No. 1. Collected near Bellavista and Jaen. Said to be of excellent quality and disease resistant.

229512. No. 2. Collected Sept., 1955, near Iquitos. Excellent flavor and firm flesh.

229513. No. 3. 'San Martin'. Criollo type; semi-elliptical, delicious; disease resistant. Collected in Tarapota, on the Amazon.

229514. No. 4. Tarapota, on the Amazon. Cross between 'San Martin', a Criollo type, and a Puerto Rican variety.

229515. CROTALARIA sp. Fabaceae.

Collected in Llamas.

**229516. CITRUS LIMON (L.) Burm. f. Rutaceae.**

**Lemon.**

From Morocco. Seeds presented by the Institut des Fruits and Agrumes, Rabat. Received Oct. 20, 1955.

'Voangibe'. Originally from the west coast of Madagascar.

**229517. DIANTHUS SUPERBUS L. Silenaceae.**

**Lilac pink.**

From Japan. Seeds collected by J. L. Creech, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 21, 1955.

Col. No. 451. Sand dunes along beach areas, Abashiri, Kitami, Hokkaido. July 29, 1955. Flowers purple; petals deeply lacinate.

**229518 to 229551.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 21, 1955.

229518. AGROPYRON sp. Poaceae.

Col. No. 15366. Southern plain of Lake Rezaiyeh, Azerbaijan.

229519. AGROPYRON sp.

Col. No. 15369. Southern plain of Lake Rezaiyeh, Azerbaijan.

229520. AGROPYRON sp.

Col. No. 15469. Northeast base of Kuhe Sahand, Azerbaijan.

229521. AGROPYRON CRISTATUM (L.) Gaertn.

**Crested wheatgrass.**

Col. No. 15485. Kuhe Sion, between Sarab and Ardabil, Azerbaijan.

229522. ALLIUM PORRUM L. Liliaceae.

**Leek.**

Col. No. 1537. Maragheh, Azerbaijan.

229523. ALOPECURUS sp. Poaceae.

Col. No. 15303. Seventy-five miles north of Kermanshah along road to Sanandaj.



**229518 to 229551—Continued**

- 229524 and 229525.** *ALOPECURUS ARUNDINACEUS* Poir.  
**229524.** Col. No. 15459. Northeast base of Kuhe Sahand, Azerbaijan.  
**229525.** Col. No. 15460. Northeast base of Kuhe Sahand, Azerbaijan.
- 229526.** *APIUM GRAVEOLENS* L. Apiaceae. Celery.  
 Col. No. 15373. Maragheh, Azerbaijan.
- 229527.** *BROMUS BRACHYSTACHYS* Hornung Poaceae. Brome.  
 Col. No. 15367. Southern plain of Lake Rezaiyeh, Azerbaijan.
- 229528.** *BROMUS* sp.  
 Col. No. 15418. Southeast base of Kuhe Sahand, Azerbaijan.
- 229529.** *BROMUS* sp.  
 Col. No. 15507. Northeast slope of Kuhe Savalan, Azerbaijan.
- 229530.** *BROMUS* sp.  
 Col. No. 15532. Northeast side of Kuhe Savalan, Azerbaijan.
- 229531.** *CUCURBITA PEPO* L. Cucurbitaceae. Pumpkin.  
 Col. No. 15377. Maragheh, Azerbaijan.
- 229532.** *DACTYLIS GLOMERATA* L. Poaceae. Orchardgrass.  
 Col. No. 15341. Twenty-two miles north of Sanandaj, Kurdistan.
- 229533.** *FESTUCA* sp. Poaceae.  
 Col. No. 15432. Northeast base of Kuhe Sahand, Azerbaijan.
- 229534.** *MEDICAGO SATIVA* L. Fabaceae. Alfalfa.  
 Col. No. 15300. Forty miles north of Kermanshah, along road to Sanandaj.
- 229535.** *ORYZOPSIS* sp. Poaceae.  
 Col. No. 15467. Northeast base of Kuhe Sahand, Azerbaijan.
- 229536 and 229537.** *PHASEOLUS VULGARIS* L. Fabaceae. Common bean.  
**229536.** Col. No. 15385. Market in Maragheh, Azerbaijan.  
**229537.** Col. No. 15397. Market in Maragheh, Azerbaijan.
- 229538.** *PISUM SATIVUM* L. Fabaceae. Garden pea.  
 Col. No. 15381. Maragheh, Azerbaijan.
- 229539.** *RAPHANUS SATIVUS* L. Brassicaceae. Radish.  
 Col. No. 15391. Market in Maragheh, Azerbaijan.
- 229540 and 229541.** *RICINUS COMMUNIS* L. Euphorbiaceae. Castorbean.  
**229540.** Col. No. 15374. Maragheh, Azerbaijan.  
**229541.** Col. No. 15402. Market in Maragheh, Azerbaijan.
- 229542.** *SESAMUM INDICUM* L. Pedaliaceae. Sesame.  
 Col. No. 15392. Market in Maragheh, Azerbaijan.
- 229543.** *SOLANUM MELONGENA* L. Solanaceae. Eggplant.  
 Col. No. 15376. Maragheh, Azerbaijan.
- 229544.** *STIPA* sp. Poaceae.  
 Col. No. 15288. Thirty-five miles north of Kermanshah, along road to Sanandaj
- 229545.** *STIPA* sp.  
 Col. No. 15428. Southeast base of Kuhe Sahand, Azerbaijan.
- 229546.** *TRIFOLIUM FRAGIFERUM* L. Fabaceae. Strawberry clover.  
 Col. No. 15370. Maragheh, Azerbaijan.

**229518 to 229551—Continued**

- 229547.** *TRIFOLIUM CAMPESTRE* Schreb. Clover.  
Col. No. 15270. Five miles north of Kermanshah.
- 229548.** *TRIGONELLA NOEANA* Boiss. Fabaceae. Clover.  
Col. No. 15275. Five miles north of Kermanshah.
- 229549.** *TULIPA* sp. Liliaceae. Tulip.  
Col. No. 15327. Eleven miles east of Sanandaj, Kurdistan.
- 229550.** *VICIA* sp. Fabaceae.  
Col. No. 15435. Kuhe Sahand, Azerbaijan.
- 229551.** *VIGNA SINENSIS* (Torner) Savi Fabaceae. Common cowpea.  
Col. No. 15386. Market in Maragheh, Azerbaijan.
- 229552.** *ORYZA LATIFOLIA* Desv. Poaceae. Rice.  
From Guatemala. Seeds presented by the Servicio Cooperativo Inter-Americano de Agricultura, Guatemala City. Received Oct. 21, 1955.  
Collected in Finca La Ilusiones, Brito, Escuintla.
- 229553.** *ARACHIS HYPOGAEA* L. Fabaceae. Common peanut.  
From the Union of South Africa. Seeds presented by the College of Agriculture and Experiment Station, Potchefstroom, Transvaal. Received Oct. 21, 1955.  
P. 620. 'Basse'.
- 229554 and 229555.** *CUCUMIS MELO* L. Cucurbitaceae. Muskmelon.  
From Spain. Seeds presented by the Instituto Nacional de Investigaciones Agronomicas, Madrid. Received Oct. 24, 1955.  
**229554.** 'Amarillo de Onteniente'.  
**229555.** 'Verde Tendral'.
- 229556 and 229557.** *SACCHARUM* (hybrids). Poaceae. Sugarcane.  
From Brazil. Cuttings presented by the Estagao Experimental de Campos, Campos. Received Oct. 25, 1955.  
**229556.** C. B. 46-47.  
**229557.** C. B. 47-15.
- 229558 and 229559.** *COFFEA ARABICA* L. Rubiaceae. Arabian coffee.  
From Ecuador. Seeds presented by the Servicio Cooperativo Inter-Americano de Agricultura, Quito. Received Oct. 24, 1955.  
**229558.** 'Cumbaya'. Leaves small, like "Macho" coffee.  
**229559.** 'Cumbaya'. Typical.
- 229560.** *HORDEUM VULGARE* L. Poaceae. Barley.  
From Finland. Seeds presented by the Agricultural Research Center, Department of Plant Husbandry, Tikkurila. Received Oct. 24, 1955.  
'Pirkka'.
- 229561 to 229563.**  
From France. Seeds presented by the Agricultural Attache, American Embassy, Paris. Received Oct. 25, 1955.
- 229561 and 229562.** *HORDEUM VULGARE* L. Poaceae. Barley.  
**229561.** 'Hatif de Grignon'. Winter type.  
**229562.** 'Probstdorf'.
- 229563.** *TRITICUM AESTIVUM* L. Poaceae. Common wheat.  
'Cappelle'. (Winter type.)

**229564. LINUM USITATISSIMUM L. Linaceae. Flax.**

From Yugoslavia. Seeds obtained through the Agricultural Attache, American Embassy, Belgrade. Received Oct. 25, 1955.

Originally from Irbia, near Valjevo. (Winter type.)

**229565. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 25, 1955.

Col. No. 15836. About 25 miles southeast of Shiraz, Fars, on shore of lake. Collected June, 1955.

**229566 to 229571.**

From Greece. Seeds presented by the Agricultural Attache, American Embassy, Athens. Received Oct. 25, 1955.

**229566. CICER ARIETINUM L. Fabaceae. Chickpea.**

M-2169.

**229567. LATHYRUS CICERA L. Fabaceae. Flatpod peavine.**

N-92.

**229568. LOTUS CORNICULATUS L. Fabaceae. Birdsfoot trefoil.**

M-4758.

**229569. LOTUS TENUIS Maldst. & Kit. Fabaceae. Trefoil.**

M-4985.

**229570. MEDICAGO SATIVA L. Fabaceae. Alfalfa.**

M-2787.

**229571. MELILOTUS SULCATA Desf. Fabaceae. Sweetclover.**

M-3705.

**229572 to 229627.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 25, 1955.

**229572 to 229574. AGROPYRON CRISTATUM (L.) Gaertn. Poaceae. Crested wheatgrass.**

**229572.** Col. No. 15468. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,500 feet.

**229573.** Col. No. 15473. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 5, 1955. Elevation 10,000 feet.

**229574.** Col. No. 15535. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 11,000 feet.

**229575. AGROPYRON sp.**

Col. No. 15279. Six miles north of Kermanshah. July 26, 1955. Elevation 6,000 feet. Annual to 1 foot high.

**229576 and 229577. AGROPYRON TRICHOPOPHORUM (Link) Richt. Stiffhair wheatgrass.**

**229576.** Col. No. 15563. Dastana, Chaharmahal. Aug. 23, 1955. Elevation 6,800 feet. Perennial with leafy culms to 3 feet high.

**229577.** Col. No. 15289. Forty miles north of Kermanshah along road to Sanandaj. July 27, 1955. Elevation 7,000 feet. Xerophytic perennial.

**229578. AGROPYRON INTERMEDIUM (Host.) Beauv. Intermediate wheatgrass.**

Col. No. 15294. Forty miles north of Kermanshah along road to Sanandaj. July 27, 1955. Elevation 6,500 to 7,000 feet. Tall, leafy perennial; used for hay.

## 229572 to 229627—Continued

229579. *AGROPYRON* sp.

Col. No. 15305. Forty miles north of Kermanshah along road to Sanandaj. July 27, 1955. Elevation 6,000 to 7,000 feet. Vigorous perennial to 3 feet high.

229580. *AGROPYRON* sp.

Col. No. 15355. Fifty miles south of Sag haz, Kurdistan. July 29, 1955. Elevation 8,500 feet. Xerophytic perennial, in extensive stands; culms single; leaf bulk small.

229581. *AGROPYRON* sp.

Col. No. 15503. Northeast spur of Kuhe Savalan, Azerbaijan. Aug. 9, 1955. Elevation 8,000 feet. Bunch perennial; stems bluish gray, to 3 feet high.

229582. *AGROPYRON REPENS* (L.) Beauv.

Quackgrass.

Col. No. 15510. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 9, 1955. Elevation 9,500 feet. Perennial to 4 feet high.

229583. *AGROPYRON* sp.

Col. No. 15683. Thirty-six miles north of Karaj, Alborz Range. Sept. 11, 1955. Elevation 6,000 feet. Slender, thin-leaved, xerophytic perennial.

229584. *ALLIUM PORRUM* L. Liliaceae.

Leek.

Col. No. 15725. Market, Kalow, Caspian shore. Sept. 13, 1955.

229585. *ANDROPOGON* sp. Poaceae.

Col. No. 15304. Forty miles north of Kermanshah along road to Sanandaj. July 27, 1955. Elevation 7,000 feet. Perennial; roots deep.

229586. *ANDROPOGON* sp.

Col. No. 15420. Southeast base of Kuhe Sahand, Azerbaijan. Aug. 3, 1955. Elevation 9,000 feet. In colonies along stream.

229587. *BOTHRIODCHLOA ISCHAEMUM* (L.) Keng. Poaceae.

Turkestan bluestem.

Col. No. 15474. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 5, 1955. Elevation 9,500 feet. Rhizomatous grass; scarcely browsed.

229588. *ASTRAGALUS* sp. Fabaceae.

Col. No. 15547. Northeast spur of Kuhe Savalan, Azerbaijan. Aug. 11, 1955. Elevation 8,000 feet. Herb spreading on loose turf.

229589. *BETA VULGARIS* L. Chenopodiaceae.

Beet.

Col. No. 15782. Market, Gorgan. Sept. 14, 1955.

229590. *BRASSICA* sp. Brassicaceae.

Col. No. 15379. Maragheh, Azerbaijan. Aug. 1, 1955. Elevation 6,300 feet. Roots eaten.

229591. *BROMUS TOMETELLUS* Boiss. Poaceae.

Brome.

Col. No. 15273. Five miles north of Kermanshah. July 26, 1955. Elevation 6,000 feet. Tufted perennial.

229592. *BROMUS DANTHONIAE* Trin.

Brome.

Col. No. 15280. Five miles north of Kermanshah. July 26, 1955. Elevation 6,000 feet. Vigorous annual to 1.5 feet high.

229593. *BROMUS TOMETELLUS* Boiss.

Brome.

Col. No. 15287. Thirty-five miles north of Kermanshah, along road to Sanandaj. July 27, 1955. Elevation 7,000 feet. Perennial.

229594. *BROMUS MACROSTACHYS* Desf.

Brome.

Col. No. 15296. Forty miles north of Kermanshah along road to Sanandaj. July 27, 1955. Elevation 7,000 feet. Thick annual grass.



## 229572 to 229627—Continued

229595. *BROMUS STERILIS* L.

Poverty brome.

Col. No. 15297. Forty miles north of Kermanshah along road to Sanandaj. July 27, 1955. Elevation 7,000 feet. Slender annual; thick spring grass.

229596. *BROMUS TOMENTELLUS* Boiss.

Brome.

Col. No. 15298. Thirty-five miles north of Kermanshah along road to Sanandaj. Elevation 7,200 feet. Tufted perennial.

229597. *BROMUS STERILIS* L.

Poverty brome.

Col. No. 15301. Forty miles north of Kermanshah along road to Sanandaj. July 27, 1955. Elevation 7,000 feet. Slender annual to 2 feet high.

229598. *BROMUS BRACHYSTACHYS* Hornung

Brome.

Col. No. 15368. Southern plain of Lake Rezaieyeh, Azerbaijan. July 31, 1955. Elevation 5,700 feet. Annual in spring flood area.

229599. *BROMUS JAPONICUS* Thunb.

Brome.

Col. No. 15409. Nineteen miles east of Maragheh, Azerbaijan. Aug. 3, 1955. Spring annual to 2 feet high; used for hay.

229600. *BROMUS FIBROUS* Hack.

Brome.

Col. No. 15430. Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Slender perennial.

229601. *BROMUS ERECTUS* Huds.

Meadow brome.

Col. No. 15431. Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet.

229602. *BROMUS* sp.

Col. No. 15476. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 5, 1955. Elevation 9,500 feet. A silver-glume grass forming sod on slopes.

229603. *BROMUS TOMENTOSUS* Trin.

Brome.

Col. No. 15518. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 10,000 feet. Bushy perennial to 2 feet high.

229604 and 229605 *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. [Watermelon.

229604. Col. No. 15757. Market, Babol. Caspian plain. Sept. 13, 1955.

229605. Col. No. 15796. Fifty miles east of Gorgan. Sept. 15, 1955. Elevation 500 feet. Melon small, round, striped.

229606. *CYNDON DACTYLON* (L.) Pers. Poaceae.

Bermudagrass.

Col. No. 15285. Thirty-two miles north of Kermanshah along road to Sanandaj. July 27, 1955. Elevation 7,000 feet. Rather coarse plants on dry slope.

229607 *DACTYLIS GLOMERATA* L. Poaceae.

Orchardgrass.

Col. No. 15291. Forty miles north of Kermanshah along road to Sanandaj. July 27, 1955. Elevation 7,000 feet. Perennial with culms to 4 feet long.

229608. *EREMURUS* sp. Liliaceae.

Col. No. 15360. Twelve miles south of Saghez, Kurdistan. July 29, 1955. Elevation 7,000 feet. Plants scattered on slope; to 3 feet high; flowers pink; leaves eaten as greens.

229609. *GLYCERIA* sp. Poaceae.

Col. No. 15465. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Perennial hydrophyte; stems succulent; liked by horses.

229610. *HELIANTHUS ANNUUS* L. Asteraceae.

Common sunflower.

Col. No. 15764. Market, Sari, Caspian plain. Sept. 14, 1955.

229611. *LENS CULINARIS* Medic. Fabaceae.

Lentil.

Col. No. 15740. 'Adas'. Market, Kalow, Caspian shore. Sept. 13, 1955.

**229572 to 229627—Continued**

**229612 and 229613.** *ONOBRYCHIS VICIAEFOLIA* Scop. Fabaceae. **Sainfoin.**

**229612.** Col. No. 15353. Thirty-nine miles north of Sanandaj, Kurdistan. July 29, 1955. Elevation 8,500 feet.

**229613.** Col. No. 15552. Market, Ardabil, Azerbaijan. Aug. 12, 1955. Elevation 6,000 feet.

**229614.** *ORYZOPSIS* sp. Poaceae.

Col. No. 15422. Southeast base of Kuhe Sahand, Azerbaijan. Aug. 2, 1955. Elevation 9,000 feet. Tufted, palatable perennial; growing on rocky slopes.

**229615.** *PAPAVER* sp. Papaveraceae.

Col. No. 15350. Twenty-two miles north of Sanandaj, Kurdistan. July 29, 1955. Elevation 6,700 feet. Spring annual.

**229616.** *PAPAVER* sp.

Col. No. 15462. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Annual on meadow slope.

**229617.** *PAPAVER ORIENTALE* L.

**Oriental poppy.**

Col. No. 15515. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 9, 1955. Elevation 9,500 feet. Annual to 1 foot high; flowers red.

**229618.** *PHASEOLUS COCCINEUS* L. Fabaceae.

**Scarlet runner bean.**

Col. No. 15405. Market, Maragheh, Azerbaijan. Aug. 1, 1955. Elevation 6,300 feet.

**229619.** *PHASEOLUS VULGARIS* L.

**Common bean.**

Col. No. 15396. Market, Maragheh, Azerbaijan. Aug. 1, 1955. Elevation 6,300 feet. Seeds large, pink, with red spots.

**229620.** *RICINUS COMMUNIS* L. Euphorbiaceae.

**Castorbean.**

Col. No. 15375. Maragheh, Azerbaijan. Aug. 1, 1955. Elevation 6,300 feet. Plant spreading, dwarf.

**229621.** *STIPA* sp. Poaceae.

Col. No. 15290. Sixty-five miles north of Kermanshah along road to Sanandaj. July 27, 1955. Elevation 7,200 feet. Tufted perennial.

**229622 and 229623.** *TRIFOLIUM RESUPINATUM* L. Fabaceae.

**Persian clover.**

**229622.** Col. No. 15324. Eleven miles east of Sanandaj, Kurdistan. July 28, 1955. Elevation 8,500 feet.

**229623.** Col. No. 15554. Market, Ardabil, Azerbaijan. Aug. 12, 1955. Elevation 6,000 feet.

**229624 and 229625.** *TRIFOLIUM AMBIGUUM* M. Bieb.

**Kura clover.**

**229624.** Col. No. 15542. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 10, 1955. Elevation 10,000 feet. Plant erect or spreading; flowers pink; abundant on drier meadow slope.

**229625.** Col. No. 15546. Northeast side of Kuhe Savalan, Azerbaijan. Aug. 11, 1955. Elevation 9,500 feet. Apparently annual forming thick cover with grasses, to 1 foot high.

**229626.** *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae.

**Fenugreek.**

Col. No. 15722. Market Kalow, Caspian shore. Sept. 13, 1955. Local variety; seeds large.

**229627.** *CORONILLA VARIA* L. Fabaceae.

**Crownvetch.**

Col. No. 15358. Thirty miles south of Saghez, Kurdistan. July 29, 1955. Elevation 8,000 feet. Rank annual herb; stems heavy, reclining. Cut with grass for hay.

**229628 to 229630.**

From Israel. Budwood presented by the Ministry of Agriculture, Agricultural Research Station, Rehovot. Received Oct. 26, 1955.

Collected Oct. 20, 1955.

**229628.** CITRUS sp. Rutaceae.

'Shamouty'. No. 57.

**229629.** CITRUS sp.

'Shamouty'. No. 79.

**229630.** CITRUS sp.

'Shamouty'. No. 1518.

**229631 to 229646.** TRIFOLIUM MEDIUM Huds. Fabaceae.

**Mammoth clover.**

From Finland. Seeds presented by the Agricultural Research Center, Department of Plant Husbandry, Tikkurila. Received Oct. 27, 1955.

**229631.** No. 1. Tikkurila

**229634.** No. 4. Tammisto.

**229632.** No. 2. Tikkurila.

**229635.** No. 5. Tammisto.

**229633.** No. 3. Tammisto.

**229636.** No. 6. Viik.

**229637 to 229646.** Jokioinen.

**229637.** No. 7.

**229642.** No. 12.

**229638.** No. 8.

**229643.** No. 13.

**229639.** No. 9.

**229644.** No. 14.

**229640.** No. 10.

**229645.** No. 15.

**229641.** No. 11.

**229646.** No. 16.

**229647 to 229650.** CHAENOMELES LAGENARIA (Loisel.) Koidz.

Malaceae.

**Japanese quince.**

From Japan. Plants presented by Eikichi Satomie, Setagaya-ku, Tokyo. Received Oct. 27, 1955.

**229647.** 'Showa-nishiki'.

**229649.** 'Tsukasa-botan'.

**229648.** 'Toyo-nishiki'.

**229650.** 'Zansetsu'.

**229651 to 229653.**

From Iran. Collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 28, 1955.

**229651.** CORYLUS sp. Betulaceae.

Col. No. 15736. Market, Kalow, Caspian shore. Sept. 13, 1955. Cultivated. Seeds.

**229652.** (Undetermined.)

Col. No. 15630. Four miles south of Khorasan, Ostan. Aug. 28, 1955. Bulbous ornamental.

**229653.** (Undetermined.)

Col. No. 15631. Four miles south of Khorasan, Ostan. Aug. 28, 1955. Bulbous ornamental.

**229654 and 229655.**

From Australia. Seeds presented by the Department of Agriculture, Sydney, New South Wales. Received Oct. 28, 1955.

**229654.** TRIFOLIUM FRAGIFERUM L. Fabaceae.

**Strawberry clover.**

**229655.** TRIFOLIUM REPENS L. Fabaceae.

**Whiteclover.**



**229656 to 229662.**

From Madagascar. Seeds presented by the Station Agronomique de l'Alaotra Tananarive. Received Oct. 28, 1955.

**229656 to 229660.** *ARACHIS HYPOGAEA* L. Fabaceae. Common peanut.

**229656.** 'Buitenzorg 214'. **229659.** 'Rustemboring'.

**229657.** 'Hybride 32'. **229660.** 'Valencia 2A7'.

**229658.** 'Hybride 33'.

**229661.** *EUCHLAENA MEXICANA* Schrad. Poaceae. Teosinte.

**229662.** *PENNISETUM CILIARE* (L.) Link Poaceae. Buffelgrass.

**229663.** *CHRYSANTHEMUM CINERARIAEFOLIUM* (Trevir.) Vis. **Pyrethrum.**  
Asteraceae.

From the Belgian Congo. Seeds presented by E. V. Chauveaux, Domaine de Rwankeri, Goma, Kivu. Received Oct. 31, 1955.

T.P.C. 1.75.

**229664.** *FRAGARIA* (hybrid). Rosaceae. **Strawberry.**

From Mexico. Plants presented by H. H. Young, Mexico City. Received Oct. 3, 1955.

'Fina'. Uruapán, Michoacán.

**229665.** *ALLIUM* sp. Liliaceae.

From Iran. Bulblets collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Oct. 31, 1955.

Col. No. 15589. Kuh Rang, Chaharmahal. Aug. 26, 1955. Elevation 8,000 feet. Leafless scapes to 1 foot high.

**229666.** *HORDEUM* sp. Poaceae. **Barley.**

From Jordan. Seeds presented by the Deir Alba Experimental Station, Amman. Received Nov. 1, 1955.

'Tribute'.

**229667 to 229673.** *SESAMUM INDICUM* L. Pedaliaceae. **Sesame.**

From Argentina. Seeds presented by the Ministry of Agriculture, Buenos Aires. Received Nov. 1, 1955.

**229667.** 948-DCE-Sm.S.N.-01-1-5-2-1. **229671.** 950-DCE-Sm.-V51-012-1.

**229668.** 950-DCE-Sm.Ind.-016-1. **229672.** 950-DCE-Sm.-V52-03.

**229669.** 950-DCE-Sm.-Ind.-017. **229673.** T-85.

**229670.** 950-DCE-Sm.-S.I. 0500.

**229674 to 229676.**

From Italy. Seeds collected by H. S. Gentry, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 1, 1955.

**229674.** *AGROPYRON PUNGENS* (Pers.) Roem. & Schult. Poaceae. **Wheatgrass**

Col. No. 15823. La Mortola Gardens, Ventimiglia. Sept. 23, 1955. Colonial, glaucous, blue-leaved, perennial.

**229675.** *ASPARAGUS SPRENGERI* Regel Convallariaceae.

Col. No. 15829. La Mortola Gardens, Ventimiglia. September 1955. Originally from Natal.

**229676.** *BRACHYPODIUM* sp. Poaceae.

Col. No. 15824. La Mortola Gardens, Ventimiglia. Sept. 24, 1955. Perennial ground cover under pine trees.



**229677 and 229678. NICOTIANA DEBNEYI Domin Solanaceae.****Tobacco.**

From Australia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received Nov. 2, 1955.

229677. T.S. 111. Carnarvon Range, Queensland.

229678. T.S. 2. Bundaberg, southeastern Queensland.

**229679 to 229735.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 1, 1955.

Collected July to September 1955, unless otherwise noted.

229679 and 229680. *ALLIUM CEPA* L. Liliaceae.

**Onion.**

229679. Col. No. 15726. Market, Kalow, Caspian shore.

229680. Col. No. 15778. Market, Gorgan. Small green type, purplish when mature.

229681. *ALOPECURUS ARUNDINACEUS* Poir. Poaceae.

Col. No. 15501. Twenty-one miles west of Ardabil, along road to Meshginshahr, Azerbaijan. Elevation 7,000 feet. Leafy perennial on rocky slope.

229682. *ASTRAGALUS* sp. Fabaceae.

Col. No. 15342. Twenty-two miles north of Sanandaj, Kurdistan. Elevation 6,700 feet. Rank perennial; bushy, spreading, to 2 feet high.

229683. *BETA VULGARIS* L. Chenopodiaceae.

**Beet.**

Col. No. 15730. 'Chohondar'. Market, Kalow, Caspian shore. Red type.

229684. *BRASSICA RAPA* L. Brassicaceae.

**Turnip.**

Col. No. 15781. Market, Gorgan.

229685. *CATABROSA AQUATICA* Beauv. Poaceae.

Col. No. 15359. Thirty miles south of Saghez, Kurdistan. Elevation 8,000 feet. Hydrophytic, leafy perennial.

229686. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae.

**Watermelon.**

Col. No. 15760. Market, Sari, Caspian plain.

229687. *CUCUMIS MELO* L. Cucurbitaceae.

**Muskmelon.**

Col. No. 15805. Qareh Qaya, 25 miles northeast of Tehran. Melon dark green, elliptic, faintly netted.

229688. *CUCURBITA PEPO* L. Cucurbitaceae.

**Pumpkin.**

Col. No. 15761. Market, Sari, Caspian plain.

229689. *DESCHAMPSIA* sp. Poaceae.

Col. No. 15528. Northeast side of Kuhe Savalan, Azerbaijan. Perennial in wet meadow; forms sod.

229690. *ELYMUS* sp. Poaceae.

Col. No. 15424. Southeast base of Kuhe Sahand, Azerbaijan. Elevation 9,000 feet. Dry meadow slope.

229691. *EREMURUS* sp. Liliaceae.

Col. No. 14836. Mountain pass 16 miles east of Sirjan, along road to Kerman. Elevation 8,500 feet. May 14, 1955. Plant with both single and caespitose rosettes; flowers white to light pink, in racemes to 3 feet high.

229692. *FESTUCA* sp. Poaceae.

Col. No. 15299. Forty-one miles north of Kermanshah along road to Sahandaj. Elevation 7,000 feet. Leafy perennial.

**229679 to 229735—Continued**

**229693.** *FESTUCA VALESIIACA* Schleich. ex Gaud.

Col. No. 15445. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Tall fescue, forming clumps on moist slope.

**229694.** *HORDEUM* sp. Poaceae.

**Barley.**

Col. No. 15318. Eleven miles east of Sanandaj, Kurdistan. Elevation 8,500 feet. Plants to 3 feet high.

**229695.** *HORDEUM* sp.

Col. No. 15410. Twenty-three miles east of Maragheh, Azerbaijan. Elevation 7,500 feet. Plant low, stooling.

**229696.** *IRIS SPURIA* L. Iridaceae.

Col. No. 15618. Near Kuhe Rang, Chaharmahal Elevation 8,000 feet. Growing in moist locations.

**229697.** *KOELERIA CRISTATA* (L.) Pers. Poaceae.

Col. No. 15478. East base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Short leaved, sod-forming perennial.

**229698 and 229699.** *LACTUCA SATIVA* L. Cichoriaceae.

**Lettuce.**

**229698.** Col. No. 15737. 'Kaho'. Market Kalow, Caspian shore.

**229699.** Col. No. 15763. Market Sari, Caspian plain.

**229700.** *LATHYRUS INCONSPICUUS* L. Fabaceae.

**Peavine.**

Col. No. 15278. Five miles north of Kermanshah. Elevation 6,000 feet. Winter and spring annual.

**229701.** *LATHYRUS* sp.

Col. No. 15494. Fourteen miles southwest of Ardabil, Azerbaijan. Elevation 6,500 feet. Hydrophytic herb.

**229702 and 229703.** *LOLIUM PERENNE* L. Poaceae.

**Ryegrass.**

**229702.** Col. No. 15216. Dastana, south of Shahr-Kord. Elevation 6,800 feet. Sod-forming perennial; well liked by animals.

**229703.** Col. No. 15490. Thirteen miles southwest of Ardabil, Azerbaijan. Perennial growing along ditch.

**229704.** *ORYZA SATIVA* L. Poaceae.

**Rice.**

Col. No. 15753. Babol, Caspian plain.

**229705.** *ORYZOPSIS HOLCIFORMIS* (M. Bieb.) Hack. Poaceae.

**Ricegrass.**

Col. No. 14962. Twenty miles south of Dehbid along road to Shiraz. Elevation 7,000 feet. Perennial; culms to 3 feet high; browsed by animals.

**229706.** *PAPAVR SOMNIFERUM* L. Papaveraceae.

**Opium poppy.**

Col. No. 15787. Market, Gorgan.

**229707 and 229708.** *PHASEOLUS AUREUS* Roxb. Fabaceae.

**Mung bean.**

**229707.** Col. No. 15734. 'Mash'. Market Kalow, Caspian shore.

**229708.** Col. No. 15766. 'Mash'. Market Sari, Caspian plain.

**229709.** *PHASEOLUS COCCINEUS* L.

**Scarlet runner bean.**

Col. No. 15811. Market, Shahrud, Khorasan Province

**229710 to 229713.** *PHASEOLUS VULGARIS* L.

**Common bean.**

**229710.** Col. No. 15721. 'Lubia'. Market Kalow, Caspian shore. Seeds long, tan.

**229711.** Col. No. 15731. Market Kalow, Caspian shore. Seeds long.

**229712.** Col. No. 15771. 'Lubia'. Market, Gorgan. Seeds pink.

**229713.** Col. No. 15810. 'Lubia'. Market, Shahrud, Khorasan Province.

**229679 to 229735—Continued****229714.** *POA* sp. Poaceae.

Col. No. 15233. Limestone mountain, southwest of Dastana, south of Shahr-Kord. Elevation 9,500 feet. Small, tufted perennial growing on drier slopes.

**229715.** *POA* sp.

Col. No. 15354. Nineteen miles north of Sanandaj, Kurdistan. Elevation 8,000 feet. Hydrophytic perennial.

**229716.** *POA* sp.

Col. No. 15362. Thirty-eight miles south of Maragheh, Kurdistan. Elevation 5,500 feet. Colonial perennial, on rocky dry slope.

**229717 to 229719.** *POA PRATENSIS* L.**Kentucky bluegrass.****229717.** Col. No. 15414. Piedmont of Kuhe Sahand, Azerbaijan. Elevation 8,000 feet. Slender, leafy perennial; growing on ditch bank.**229718.** Col. No. 15440. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Leafy perennial; culms tall; found in moist meadow.**229719.** Col. No. 15443. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Plants tall with good leaf crown.**229720.** *APERA SPICA-VENTA* (L.) Beauv. Poaceae.

Col. No. 15444. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Small perennial with dense crown of long leaves.

**229721.** *POA PRATENSIS* L. Poaceae.**Kentucky bluegrass.**

Col. No. 15511. Northeast side of Kuhe Savalan, Azerbaijan. Elevation 9,500 feet. Perennial forming heavy sod in moist meadow.

**229722.** *POA* sp.

Col. No. 15628. Four miles south of Khorasan, Ostan. Elevation 9,000 feet. Small, turf-like, perennial.

**229723 to 229725.** *RAPHANUS SATIVUS* L. Brassicaceae.**Radish.****229723.** Col. No. 15732. 'Toroptcheh'. Market Kalow, Caspian shore. Roots long, white.**229724.** Col. No. 15738. 'Toroptcheh'. Market, Kalow, Caspian shore. Roots small, red.**229725.** Col. No. 15762. Market, Sari, Caspian plain. Roots small, red.**229726.** *ROSA* sp. Rosaceae.

Col. No. 15606. East base of Kuhe Zard, Chaharmahal. Elevation 8,500 feet. Spreading perennial to 1 foot high.

**229727.** *ROSA* sp.

Col. No. 15675. Near Ab'Ali, Alborz Range. Elevation 6,000 feet. Erect bushes to 4 feet high.

**229728.** *SECALE CEREALE* L. Poaceae.**Rye.**

Col. No. 15348. Twenty-two miles north of Sanandaj, Kurdistan. Elevation 6,700 feet. Tall nonshattering type. Culms strong, to 3 feet high.

**229729.** *SECALE* sp.

Col. No. 15416. Southeast base of Kuhe Sahand, Azerbaijan. Elevation 9,000 feet. Stooling perennial on rocky slope.

**229730.** *SOLANUM MELONGENA* L. Solanaceae.**Eggplant.**

Col. No. 15741. 'Badenjon'. Market, Kalow, Caspian Shore. Fruits long.

**229731.** *SPINACIA OLERACEA* L. Chenopodiaceae.**Common spinach.**

Col. No. 15735. 'Esfins'g'. Market, Kalow, Caspian Shore.



**229679 to 229735—Continued****229732.** *TRIFOLIUM STRIATUM* L. Fabaceae.**Clover.**

Col. No. 15271. Five miles north of Kermanshah. Elevation 6,000 feet. Annual to 5 inches high.

**229733.** *VICIA ERVILIA* (L.) Willd. Fabaceae.**Bitter vetch.**

Col. No. 15277. Five miles north of Kermanshah. Elevation 6,000 feet. Annual dry-farmed wheat.

**229734 and 229735.** *VIGNA SINENSIS* (Torner) Savi Fabaceae. **Common cowpea.****229734.** Col. No. 15720. 'Chesh Bolboli Lubia'. Market, Kalow, Caspian plain.**229735.** Col. No. 15780. 'Lubia'. Market, Gorgan. Large white bean.**229736.** *ARACHIS* sp. Fabaceae.

From Paraguay. Roots presented by Fred J. Kemp, Primavera. Received Nov. 2, 1955.

A wild species.

**229737.** *PENNISETUM CILIARE* (L.) Link Poaceae.**Buffelgrass.**

From Morocco. Seeds presented by the Forest and Range Program, Rabat. Received Nov. 3, 1955.

**229738.** *GLYCINE MAX* (L.) Merr. Fabaceae.**Soybean.**

From Algeria. Seeds presented by the Service de l'Experimentation Agricole. Maison-Carree. Received Nov. 3, 1955.

'Hubert 33'.

**229739 to 229797.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 8, 1955.

Collected Aug. and Sept., 1955, unless otherwise noted.

**229739.** *AGROPYRON* sp. Poaceae.

Col. No. 15610. East slope of Kuhe Zard, Chaharmahal. Elevation 9,500 feet. Diffusely caespitose perennial; culms slender, to 3 feet high.

**229740.** *AGROPYRON* sp.

Col. No. 15611. East slope of Kuhe Zard, Chaharmahal. Elevation 9,500 feet. Larger, more vigorous variety than P.I. 229739.

**229741.** *ALLIUM* sp. Liliaceae.

Col. No. 15625. Four miles south of Khorasan, Ostan. Elevation 9,000 feet.

**229742.** *ALLIUM* sp.

Col. No. 15638. Near Musiabad, 43 miles west of Esfahan. Elevation 7,500 feet.

**229743 and 229744.** *MELICA CUPANI* Guss. Poaceae.**Melic.****229743.** Col. No. 15415. Southeast base of Kuhe Sahand, Azerbaijan. Elevation 9,000 feet. Small leafy perennial on rocky slope.**229744.** Col. No. 15472. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Leafy perennial on rocky volcanic slope.**229745.** *ALOPECURUS ARUNDINACEUS* Poir. Poaceae.

Col. No. 15587. Twenty-eight miles northwest of Shahr Kord, Chaharmahal. Elevation 8,500 feet. Hydrophytic perennial browsed by sheep.



## 229739 to 229797—Continued

229746. *BOTHRIOCHLOA ISCHAEMUM* (L.) Keng Poaceae. **Turkestan bluestem.**  
Col. No. 15283. Thirty-two miles north of Kermanshah along road to Sanandaj. Elevation 7,000 feet. July 27, 1955. Bushy perennial; excellent forage.
229747. *BRASSICA OLERACEA* var. *CAPITATA* L. Brassicaceae. **Cabbage.**  
Col. No. 15788. Market, Gorgan.
- 229748 and 229749. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. **Watermelon.**  
229748. Col. No. 15791. 'Anduvani'. Market, Gorgan.  
229749. Col. No. 15794. 'Anduvani'. Market, Gorgan. Fruits round, striped, to 20 pounds in weight.
- 229750 and 229751. *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**  
229750. Col. No. 15759. Market, Sari, Caspian plain.  
229751. Col. No. 15795. 'Harbuseh'. Market, Gorgan. Fruits greenish, depressed globose with thick white flesh. Casava type.
229752. *DAUCUS CAROTA* L. Apiaceae. **Carrot.**  
Col. No. 15785. Market, Gorgan.
229753. *ELYMUS* sp. Poaceae.  
Col. No. 15423. Southeast base of Kuhe Sahand, Azerbaijan. Elevation 9,000 feet. Perennial; heavily grazed.
229754. *ERAGROSTIS* sp. Poaceae.  
Col. No. 15534. Northeast side of Kuhe Savalan, Azerbaijan. Elevation 11,000 feet. Small, stoloning perennial, growing on rocky slope.
229755. *FESTUCA* sp. Poaceae.  
Col. No. 15419. Southeast base of Kuhe Sahand, Azerbaijan. Elevation 9,000 feet. Short-tufted perennial; much browsed.
229756. *FESTUCA* sp.  
Col. No. 15433. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Short-lived perennial.
229757. *FESTUCA* sp.  
Col. No. 15446. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Plants tall, leafy.
- 229758 and 229759. *HORDEUM BULBOSUM* L. Poaceae. **Barley.**  
229758. Col. No. 15030. Mountain pass above Dasht Arjan, Fars. Elevation 7,200 feet. Perennial to 3 feet high.  
229759. Col. No. 15111. Kowkun Valley, Fars. Elevation 7,500 feet. Annual; spontaneous weed to 4 feet high.
229760. *IRIS* sp. Iridaceae.  
Col. No. 15639. Near Musiabad, 43 miles west of Esfahan. Elevation 7,500 feet. Flowers large, showy, purple.
- 229761 and 229762. *LACTUCA SATIVA* L. Cichoriaceae. **Lettuce.**  
229761. Col. No. 15755. 'Kaho'. Market, Babol, Caspian plain.  
229762. Col. No. 15789. 'Kaho'. Market, Gorgan.
229763. *LINUM USITATISSIMUM* L. Linaceae. **Flax.**  
Col. No. 15758. Market, Sari, Caspian plain.
229764. *LOLIUM PERSICUM* Boiss. & Hohen. Poaceae. **Ryegrass.**  
Col. No. 15332. Twelve miles east of Sanandaj, Kurdistan. Elevation 8,500 feet. Perennial to 1 foot high.

**229739 to 229797—Continued****229765.** *LOTUS GEBELIA* var. *HIRSUTISSIMUS* (Ledeb.) Dinsm. Fabaceae.**Trefoil.**

Col. No. 15284. Thirty-two miles north of Kermanshah along road to Sanandaj. Elevation 7,000 feet. Bushy perennial, to 1 foot high; flowers pink and white.

**229766.** *MEDICAGO POLYMORPHA* var. *VULGARIS* (Benth.) Shinn. Fabaceae.**California burclover.**

Col. No. 15276. Five miles north of Kermanshah. Elevation 6,000 feet.

**229767.** *ORYZOPSIS* sp. Poaceae.

Col. No. 15570. Mountain southwest of Dastana, Chaharmahal. Elevation 10,000 feet. Slender, sparse perennial; liked by sheep and goats.

**229768.** *PHALARIS CANARIENSIS* L. Poaceae.**Canarygrass.**

Col. No. 15497. Nine miles west of Ardabil, Azerbaijan. Elevation 6,000 feet.

**229769.** *PHASEOLUS COCCINEUS* L. Fabaceae.**Scarlet runner bean.**

Col. No. 15733. 'Lubia'. Market, Kalow, Caspian shore. Seeds large, white.

**229770 to 229773.** *PHASEOLUS VULGARIS* L.**Common bean.****229770.** Col. No. 15678. Near Ab'Ala, Alborz Range. Elevation 6,000 feet. Pods large; beans red-marked.**229771.** Col. No. 15727. Market, Kalow, Caspian shore. Seeds large, roundish, reddish.**229772.** Col. No. 15742. 'Lubia'. Market, Kalow, Caspian shore. Seeds small, pink.**229773.** Col. No. 15740. 'Lubia'. Market, Babol, Caspian plain. Seeds roundish, reddish.**229774.** *POA PRATENSIS* L. Poaceae.**Kentucky bluegrass.**

Col. No. 15211. Dastana, south of Shahr-Kord. Small perennial forming succulent sod in moist bottomland.

**229775.** *POA* sp.

Col. No. 15344. Twenty-two miles north of Sanandaj, Kurdistan. Elevation 6,700 feet. Perennial to 3 feet high.

**229776.** *POA* sp.

Col. No. 15961. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Small, purple-topped perennial.

**229777.** *POA PRATENSIS* L.**Kentucky bluegrass.**

Col. No. 15466. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Perennial in meadow.

**229778.** *POA PRATENSIS* L.

Col. No. 15524. Northeast side of Kuhe Savalan, Azerbaijan. Elevation 10,500 feet. Leafy perennial growing among rocks.

**229779.** *POA* sp.

Col. No. 15557. Near Zanjan.

**229780.** *POA* sp.

Col. No. 15488. Kuhe Sion between Sarab and Ardabil, Azerbaijan. Elevation 8,500 feet.

**229781.** *POA* sp.

Col. No. 15493. Thirteen miles southwest of Ardabil, Azerbaijan. Elevation 6,500 feet. Plants vigorous, leafy.

**229782.** *POA* sp.

Col. No. 15530. Northeast side of Kuhe Savalan, Azerbaijan. Elevation 10,500 feet. Sod-forming, leafy perennial.

**229739 to 229797—Continued**

**229783.** *POLYPOGON* sp. Poaceae.

Col. No. 15261. Ten miles south of Esfahan along road to Shiraz. July 16, 1955. Spreading annual.

**229784.** *POLYPOGON* sp.

Col. No. 15262. Ten miles south of Esfahan along road to Shiraz. Perennial eaten by livestock.

**229785 and 229786.** *RICINUS COMMUNIS* L. Euphorbiaceae. **Castorbean.**

**229785.** Col. No. 15783. Market, Gorgan.

**229786.** Col. No. 15784. Market, Gorgan.

**229787.** *ROSA* sp. Rosaceae.

Col. No. 15668. South slope of Damavand Mountain, Alborz Range. Elevation 9,300 feet. Shrub to 5 feet high.

**229788.** *ROSA* sp.

Col. No. 15689. Gach Sar, Alborz Range. Elevation 6,800 feet.

**229789.** *RUMEX* sp. Polygonaceae.

Col. No. 15536. Northeast side of Kuhe Savalan, Azerbaijan. Elevation 11,000 feet. Spreading, mat-like herb; to 2 inches high; racemes red.

**229790.** *SESAMUM INDICUM* L. Pedaliaceae. **Sesame.**

Col. No. 15728. 'Conjet'. Market, Kalow, Caspian shore. Cultivated for oil and for pastry topping.

**229791.** *ECHINOCHLOA* sp. Poaceae.

Col. No. 15491. Thirteen miles southwest of Ardabil, Azerbaijan. Elevation 6,500 feet.

**229792.** *SPINACIA OLERACEA* L. Chenopodiaceae. **Common spinach.**

Col. No. 15774. 'Espinage'. Market, Gorgan.

**229793.** *TRIGONELLA FOENUM-GRACECUM* L. Fabaceae. **Fenugreek.**

Col. No. 15767. Market, Sari, Caspian plain. Annual.

**229794.** *LATHYRUS CHLORANTHUS* Boiss. Fabaceae. **Peavine.**

Col. No. 15292. Forty miles north of Kermanshah along road to Sanandaj. July 27, 1955.

**229795 and 229796.** *VIGNA SINENSIS* (Torner) Savi Fabaceae. **Common cowpea.**

**229795.** Col. No. 15756. 'Lubia'. Market, Babol, Caspian plain.

**229796.** Col. No. 15793. Market, Gorgan. Seeds small; brown and white.

**229797.** *ZEA MAYS* L. Poaceae. **Corn.**

Col. No. 15406. Market, Maragheh, Azerbaijan. Elevation 6,300 feet.

**229798 and 229799.**

From Finland. Seeds presented by the Plant Breeding Station, Tammisto. Received Nov. 4, 1955.

**229798.** *TRIFOLIUM HYBRIDUM* L. Fabaceae. **Alsike clover.**

**229799.** *TRIFOLIUM PRATENSE* L. **Red clover.**

**229800 to 229803.**

From Thailand. Plant material presented by the Agriculture Division, International Cooperation Administration, Bangkok. Received Nov. 7, 1955.

**229800.** *LANSIUM* sp. Meliaceae.

Budwood.

**229800 to 229803—Continued****229801 to 229803.** *SACCHARUM* (hybrids). Poaceae.**Sugarcane.**

Cuttings.

**229801.** 'Abol'.**229802.** 'Kacai'.**229803.** 'Ooi Hok'.**229804.** *SOLANUM TUBEROSUM* L. Solanaceae.**Potato.**

From Australia. Tubers presented by the Department of Agriculture, Sydney, New South Wales. Received Oct. 18, 1955.

'Walanga'.

**229805.** *CAMELLIA RUSTICANA* Honda Theaceae.

From Japan. Seeds presented by Prof. Inokouma, Lake Tazawa, Akita Prefecture. Received Nov. 4, 1955.

**229806 to 229821.**

From New York. Seeds held at the Regional Plant Introduction Station, Geneva. Numbered Nov. 7, 1955.

**229806.** *CITRULLUS VULGARIS* Schrad. Cucurbitaceae.**Watermelon.**

No. 55-30. 'Takii Gem'. From Takii &amp; Co., Kyoto, Japan, through Cornell University, Ithaca, N. Y. Very early; fruits small, resemble 'New Hampshire Midget', grayish-green.

**229807.** *CUCUMIS MELO* L. Cucurbitaceae.**Muskmelon.**No. 55-31. 'Early Korean'  $\times$  'Jaune Canari' (North African Honeydew) *C. melo* var. *reticulatus*  $\times$  var. *inodorous*). Early honeydew melon adapted to New Hampshire.**229808.** *CUCUMIS SATIVUS* L.**Cucumber.**No. 55-64. P200  $\times$  SMR 12-12. From Ontario Agricultural College, Guelph, Ontario. Resistant to mosaic and scab.**229809 and 229810.** *LYCOPERSICON ESCULENTUM* Mill. Solanaceae.**Tomato.**

Genetic testers from the Agricultural Experiment Station, Durham, New Hampshire.

**229809.** 'D-a-c-l-r-y'.**229810.** 'D-p-o-s-r-y'.**229811.** *PHASEOLUS ANGULARIS* (Willd.) M. F. Wight Fabaceae.**Adzuki bean.**

No. 55-106. 'Ward'. Early strain from China.

**229812 to 229821.** *PHASEOLUS VULGARIS* L.**Common bean.****229812 to 229816.** From the Agricultural Experiment Station, Durham.

Bush type.

**229812.** No. 55-104. H-1. Seeds very large, pink, mottled with red.**229813.** No. 55-105. R-2. Seeds bright red.**229814.** No. 55-107. B-1. Blue-pod snap.**229815.** No. 55-108. B-2. Blue-pod snap.**229816.** No. 55-109. B-3. Blue-pod snap.**229817 to 229821.** Pole type cultivated in Geneva; originally from Italy.**229817.** No. 55-148. 'Flynn No. 1'. Seeds large, deep tan, purple markings.**229818.** No. 55-149. 'Flynn No. 2'. Seeds large, flat, light tan; bright purple markings.



**229806 to 229821—Continued****229812 to 229821—Continued****229817 to 229821—Continued**

**229819.** No. 55-150. 'Flynn No. 3'. Seeds angular oval, light tan; purple markings.

**229820.** No. 55-151. 'Flynn No. 4'. Seeds rectangular oval, tan.

**229821.** No. 55-152. 'Flynn No. 5'. Seeds very plump, oval angular, light tan, speckled black.

**229822. MELILOTUS ITALICA (L.) Lam. Fabaceae.****Annual yellow sweetclover.**

From Spain. Seed presented by the Estación Experimental de Aula Dei, Zarazoga. Received Nov. 7, 1955.

Originally from the Madrid Botanical Garden.

**229823 to 229879.**

From The Union of South Africa. Seeds presented by the College of Agriculture and Experiment Station, Potchefstroom, Transvaal. Received Nov. 7, 1955.

**229823. SORGHUM BASUTORUM Snowden Poaceae.**

'Red Durra'.

**229824 and 229825. SORGHUM CAUDATUM (Hack.) Stapf**

**229824.** 'Apele'.

**229825.** 'Orando'.

**229826 and 229827. SORGHUM NERVOSUM Chiov.**

**229826.** Originally from Tokio.

**229827.** 'Kaoliang 1718'.

**229828. SORGHUM NIGRICANS (Ruiz & Pav.) Snowden**

'Louis Trichardt A36'.

**229829 to 229831. SORGHUM VULGARE Pers.**

**229829.** 'Birdproof'.

**229830.** 'Birdproof - Shapiro'.

**229831.** 'Early Sumac'.

**229832 to 229879. SORGHUM VULGARE var. CAFFRORUM (Retz.) Hubb. & Rehd.**

**229832.** P3727.

**229845.** P3740.

**229833.** P3728.

**229846.** P3741.

**229834.** P3729.

**229847.** P3742.

**229835.** P3730.

**229848.** P3743.

**229836.** P3731.

**229849.** P3744.

**229837.** P3732.

**229850.** P3745.

**229838.** P3733.

**229851.** P3746.

**229839.** P3734.

**229852.** P3747.

**229840.** P3735.

**229853.** P3748.

**229841.** P3736.

**229854.** P3749.

**229842.** P3737.

**229855.** P3750.

**229843.** P3738.

**229856.** P3751.

**229844.** P3739.

**229857.** 'Bergville Red'.

**229823 to 229879—Continued****229823 to 229879—Continued**

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|------------------------------|------------------------------|
| 229858. 'Early Dwarf'.       | 229869. 'Pretoria Pink'.     |
| 229859. 'Fort Cox 11'.       | 229870. 'Red ex Louw'.       |
| 229860. 'Fort Cox 41'.       | 229871. 'Red ex Mafeking'.   |
| 229861. 'Lady Frere Red'.    | 229872. 'Red Fort Hays'.     |
| 229862. 'Lydenburg Red'.     | 229873. 'Red Kaffircorn'.    |
| 229863. 'Makaya Red'.        | 229874. 'Rustenburg Red'.    |
| 229864. 'Matlabas Tall Red'. | 229875. 'Short Red ex Glen'. |
| 229865. 'Mimosa Park'.       | 229876. 'Thimba Red'.        |
| 229866. 'Natal Red'.         | 229877. 'Tiba Red'.          |
| 229867. 'Pietersburg Baker'. | 229878. 'W. W. R. Red'.      |
| 229868. 'Pietersburg Red'.   |                              |

**229880 to 229882.**

From Okinawa. Plant material presented by the Economic and Finance Department, United States Civil Administration to the Ryukyu Islands, San Francisco, Calif. Received Nov. 8, 1955.

**229880. CAMELLIA JAPONICA L. Theaceae. Common camellia.**

'Hozanesis'. Genka Haneji-Son, Northern Okinawa in the Tobaru-Yama Mountain. Aug. 30, 1955. (Seeds.)

**229881. TUTCHERIA VIRGATA (Koidz.) Nakai Theaceae.**

Genka Haneji-Son, Northern Okinawa in the Tobaru-Yuma Mountain. Collected Aug. 30, 1955. (Seeds.)

**229882. LILIUM CALLOSUM Sieb. & Zucc. Liliaceae. Lily.**

'Flaviflorum'. Yaezu-Kake in Shimatiri-Gun, Southern Okinawa. (Bulbs.)

**229883. VICIA PANNONICA Crantz Fabaceae. Hungarian vetch.**

From England. Seeds presented by P. E. Taylor, Stanton-on-the-Wolds, Keyworth, Nottinghamshire. Received Nov. 8, 1955.

'Purpurascens'.

**229884 to 229890.**

From Japan. Seeds presented by the Saikyo University, Saikyo, Kyoto. Received Nov. 8, 1955.

**229884. LITHOCARPUS EDULIS (Makino) Rehd. Fagaceae.****229885. LITHOCARPUS GLABRA (Thunb.) Rehd.****229886. QUERCUS GILVA Blume Fagaceae. Oak.****229887. QUERCUS GLAUCA Thunb. Blue Japanese oak.****229888. QUERCUS SESSILIFOLIA Blume Oak.****229889 and 229890. QUERCUS PHILLYRAEOIDES A. Gray Oak.**

229889. Typical form.

229890. 'Crispa'.

**229891 to 229903. SOLANUM TUBEROSUM L. Solanaceae. Potato.**

From Peru. Tubers presented by the American Embassy, Lima. Received Nov. 8, 1955.

**229891 to 229903—Continued**

229891. C.O. 2109.	229898. C.O. 2122.
229892. C.O. 2111.	229899. C.O. 2126.
229893. C.O. 2114.	229900. C.O. 2128.
229894. C.O. 2115.	229901. C.O. 2130.
229895. C.O. 2117.	229902. C.O. 2132.
229896. C.O. 2119.	229903. C.O. 2137.
229897. C.O. 2120.	

**229904. PSYCHOTRIA UNDATA Jacq. Rubiaceae.**

From Florida. Plant growing at the United States Plant Introduction Station, Miami. Numbered Nov. 8, 1955.

**229905. LOTUS PEDUNCULATUS Cav. Fabaceae.****Trefoil.**

From Belgium. Seeds presented by A. Van Slijcken, Antwerp. Received Nov. 9, 1955.

**229906 to 229972.**

From Iran. Seeds collected by H. S. Genty, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 9, 1955.

Collected July to September, 1955, unless otherwise noted.

**229906. AELUROPUS LITTORALIS (Gouan) Parl. Poaceae.**

Col. No. 15365. Southern plain of Lake Rezaiyeh, Azerbaijan. Elevation 5,700 feet. Perennial salt grass in spring flood area.

**229907 to 229909. AGROPYRON CRISTATUM (L.) Gaertn. Poaceae.****Crested wheatgrass.**

**229907.** Col. No. 15643. South slope of Damavand Mountain, Alborz Range. Elevation 8,000 feet. Leafy bunchgrass.

**229908.** Col. No. 15801. Alborz Range, between Gorgan and Shahrud. Elevation 6,200 feet. Xerophytic perennial.

**229909.** Col. No. 15817. Thirteen miles west of Firuzkuh, Alborz Range. Xerophytic bunch perennial.

**229910. AGROPYRON sp.**

Col. No. 15564. Mountains southwest of Dastana, Chaharmahal. Elevation 9,500 feet. Perennial bunchgrass to 3 feet high; leaves thin.

**229911. AGROPYRON sp.**

Col. No. 15595. East base of Kuhe Zard, Chaharmahal. Elevation 8,500 feet. Perennial to 3 feet high.

**229912. AGROPYRON BRACHYPHYLLUM Boiss. & Haussk.****Wheatgrass.**

Col. No. 15596. East base of Kuhe Zard, Chaharmahal. Elevation 8,500 feet.

**229913. AGROPYRON sp.**

Col. No. 15608. East slope of Kuhe Zard, Chaharmahal. Elevation 9,000 feet. Perennial on rocky slope.

**229914. AGROPYRON CAESPITOSUM Koch****Wheatgrass.**

Col. No. 15623. Five miles south of Khunsar, Ostan. Elevation 9,000 feet. Tall leafy perennial, on rocky slopes.

**229915. AGROPYRON sp.**

Col. No. 15636. Dastana, Chaharmahal. Perennial on rocky limestone slope.

**229916 and 229917. AGROPYRON TRICOPHORUM (Link) Richt.****Stiffhair wheatgrass.**

**229906 to 229972—Continued****229916 to 229917—Continued**

**229916.** Col. No. 15644. South slope of Damavand Mountain, Alborz Range. Elevation 8,000 feet. Leafy perennial to 16 inches high.

**229917.** Col. No. 15645. South slope of Damavand Mountain, Alborz Range.

**229918.** *AGROPYRON INTERMEDIUM* (Host.) Beauv. **Wheatgrass.**

Col. No. 15649. South slope of Damavand Mountain, Alborz Range. Elevation 8,000 feet. Tall, slender perennial.

**229919.** *AGROPYRON* sp.

Col. No. 15650. South slope of Damavand Mountain, Alborz Range. Elevation 8,000 feet. Perennial on rocky slope.

**229920.** *AGROPYRON LOLIODES* (Kar. & Kir.) Roshev. **Wheatgrass.**

Col. No. 15651. South slope of Damavand Mountain, Alborz Range. Elevation 8,000 feet. Colonial perennial on rocky slope.

**229921.** *AGROPYRON* sp.

Col. No. 15654. South slope of Damavand Mountain, Alborz Range. Elevation 8,000 feet. Perennial; leaves few.

**229922.** *AGROPYRON* sp.

Col. No. 15665. South slope of Damavand Mountain, Alborz Range. Elevation 10,400 feet. Fine leaved perennial; stems to 2 feet high.

**229923.** *AGROPYRON* sp.

Col. No. 15676. Near Ab'Ali, Alborz Range. Elevation 6,000 feet. Slender, colonial perennial, to 2.5 feet high.

**229924.** *AGROPYRON LOLIODES* (Kar. & Kir.) Roshev. **Wheatgrass.**

Col. No. 15684. Gach Sar, Alborz Range. Elevation 6,800 feet.

**229925.** *AGROPYRON ELONGATIFORME* Drob. **Wheatgrass.**

Col. No. 15688. Gach Sar, Alborz Range. Elevation 6,800 feet. Slender perennial cut for hay.

**229926.** *AGROPYRON* sp.

Col. No. 15715. Twenty miles south of Kalow, Caspian slope of Alborz. Elevation 4,000 feet. Perennial; stems leafy.

**229927.** *AGROPYRON* sp.

Col. No. 15800. Alborz Range between Gorgan and Shahrud. Elevation 6,200 feet. Xerophytic perennial.

**229928.** *AGROPYRON TRICHOPHORUM* (Link) Richt. **Stiffhair wheatgrass.**

Col. No. 15816. Thirteen miles west of Firuzkuh, Alborz Range. Elevation 7,300 feet. Xerophytic perennial.

**229929.** *APERA INTERRUPTA* L. Poaceae.

Col. No. 15346. Twenty-two miles north of Sanandaj, Kurdistan. Elevation 6,700 feet. Perennial forming colonies in moist soil.

**229930.** *ALOPECURUS MYOSUROIDES* Huds. Poaceae.

Col. No. 15496. Nine miles west of Ardabil, Azerbaijan. Elevation 6,000 feet. Annual weed.

**229931.** *ALYSSUM*. Brassicaceae.

Col. No. 15765. 'Ghondomeh'. Market, Sari, Caspian plain. Seeds used for medicinal purposes.

**229932.** *ANDROPOGON* sp. Poaceae.

Col. No. 15652. South slope of Damavand Mountain, Alborz Range. Elevation 8,000 feet. Sparsely-leaved cespitose perennial.



**229906 to 229972—Continued****229933. ANDROPOGON sp. Poaceae.**

Col. No. 15671. Near Ab'Ali, Alborz Range. Small tufted perennial on dry slope.

**229934. BOTHRIOCHLOA ISCHAEMUM (L.) Keng. Poaceae. Turkestan bluestem.**

Col. No. 15674. Near Ab'Ali, Alborz Range. Elevation 6,000 feet. Palatable perennial along ditches.

**229935. STIPA REDOWSKII Trin. Poaceae.****Needlegrass.**

Col. No. 15705. Thirty miles south of Kalow, Caspian side, Alborz Range. Elevation 6,500 feet. Slender Perennial with long curving culms on rocky slope.

**229936. ARISTIDA sp. Poaceae.**

Col. No. 15707. Twenty-eight miles south of Kalow, Caspian side, Alborz Range. Elevation 6,000 feet.

**229937. ARISTIDA sp.**

Col. No. 15797. Fifty-four miles east of Gorgan. Elevation 1,200 feet. Perennial to 3 feet high; leaves few.

**229938. BROMUS SCOPARIUS L. Poaceae.****Broom brome.**

Col. No. 15338. Twenty-two miles north of Sanandaj, Kurdistan. Elevation 6,700 feet. Small, stooling annual.

**229939 and 229940. BROMUS SYRIACUS Boiss. & Blanche****Brome.**

**229939.** Col. No. 15687. Garh Sar, Alborz Range. Elevation 7,000 feet. Cespitose xerophytic perennial cut for hay.

**229940.** Col. No. 15700. Thirty miles south of Kalow, Caspian slope of Alborz. Elevation 6,500 feet. Perennial forming bushy clumps.

**229941. CALAMAGROSTIS sp. Poaceae.**

Col. No. 15452. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Scattered perennial with single culms to 2 feet high.

**229942. CUPRESSUS sp. Pinaceae.****Cypress.**

Col. No. 15716. Twelve miles south of Kalow, Caspian slope, Alborz. Large tree.

**229943. DESCHAMPSIA sp. Poaceae.**

Col. No. 15458. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Meadow species.

**229944 and 229945. DIANTHUS CARYOPHYLLUS L. Silenaceae.****Carnation.**

**229944.** Col. No. 15605. East base of Kuhe Zard, Chaharmahal. Elevation 8,500 feet. Flowers pink.

**229945.** Col. No. 15670. South slope of Damavand Mountain, Alborz Range. Elevation 8,000 feet. Flowers pink; stems long.

**229946. HETERANTHELIUM PILIFERUM (Russ.) Jaub. & Spach. Poaceae.**

Col. No. 15251. Canyon above Dastana, south of Shahr-Kord. Elevation 7,500 feet. Annual to 6 inches high on rocky slope.

**229947. FESTUCA sp. Poaceae.**

Col. No. 15043. Dasht Arjan, Fars. June 15, 1955. Elevation 6,600 feet. Perennial grass; closely grazed.

**229948. GLYCERIA sp. Poaceae.**

Col. No. 15527. Northeast side of Kuhe Savalan, Azerbaijan. Plant beautiful, purple-topped, hydrophytic, perennial to 4 feet high.

**229949. HORDEUM VULGARE L. Poaceae.****Barley.**

Col. No. 15754. 'Joh'. Market, Babol, Caspian plain. A black type.

**229906 to 229972—Continued****229950.** *HORDEUM VULGARE* L.**Barley.**

Col. No. 15772. Market, Grogan.

**229951.** *JUNIPERUS* sp. Pinaceae.

Col. No. 15803. Alborz Range between Gorgan and Shahrud. Elevation 6,200 feet. Erect, bushy tree to 40 feet high.

**229952.** *JUNIPERUS* sp.

Col. No. 15804. Alborz Range between Gorgan and Shahrud. Elevation 6,200 feet. Spreading shrub to 2 feet high; forming large deep mats.

**229953.** *KOELERIA CRISTATA* (L.) Pers. Poaceae.

Col. No. 15504. Northeast slope of Kuhe Savalan, Azerbaijan. Elevation 9,500 feet. Perennial on dry meadow slopes.

**229954 and 229955.** *MEDICAGO SATIVA* L. Fabaceae.**Alfalfa.****229954.** Col. No. 15583. Seven miles northwest of Shahr-Kord, Chaharmahal. Elevation 7,000 feet.**229955.** Col. No. 15647. South slope of Damavand Mountain, Alborz Range. Elevation 8,000 feet.**229956.** *MELICA* sp. Poaceae.

Col. No. 15190. Near Ghavero kh along road to Shahr-Kord. Elevation 7,700 feet. Cespitose perennial in rock piles.

**229957.** *MELILOTUS OFFICINALIS* (L.) Lam. Fabaceae.**Yellow sweetclover.**

Col. No. 15585. Seven miles northwest of Shahr-Kord, Chaharmahal. Elevation 7,000 feet. Low, bushy species.

**229958.** *PHLEUM PHLEOIDES* (L.) Karst. Poaceae.**Timothy.**

Col. No. 15306. Forty miles north of Kermanshah along road to Sanandaj. Elevation 7,000 feet. Annual.

**229959.** *PLANTAGO* sp. Plantaginaceae.

Col. No. 15591. Kuhe Rang, Chaharmahal. Elevation 8,000 feet. Used locally for medicine.

**229960.** *PLANTAGO* sp.

Col. No. 15768. Market, Sari, Caspian plain. Seed used as a laxative.

**229961.** *POA STERILIS* Bieb. Poaceae.**Bluegrass.**

Col. No. 15429. Southeast base of Kuhe Sahand, Azerbaijan. Elevation 9,000 feet. Tufted perennial on rocky slope.

**229962.** *POA STERILIS* Bieb.**Bluegrass.**

Col. No. 15470. Northeast base of Kuhe Sahand, Azerbaijan. Elevation 10,000 feet. Tall, tough, cespitose xerophytic perennial; roots strong, coarse; closely grazed.

**229963.** *POA* sp.

Col. No. 15520. Northeast side of Kuhe Savalan, Azerbaijan. Elevation 10,000 feet. Plants small, growing among rocks; leaves tender.

**229964.** *SECALE* sp. Poaceae.

Col. No. 15664. South slope of Damavand Mountain, Alborz Range. Elevation 9,300 feet. Perennial; stems coarse.

**229965.** *SORGHUM HALEPENSE* (L.) Pers. Poaceae.**Johnsongrass.**

Col. No. 15714. Twenty miles south of Kalow, Caspian slope of Alborz. Elevation 4,000 feet. Tall, caney perennial.

**229966.** *TRIFOLIUM REPENS* L. Fabaceae.**Whiteclover.**

Col. No. 15656. South slope of Damavand Mountain, Alborz Range. Elevation 9,300 feet.

**229966 to 229972—Continued****229967.** *TRIFOLIUM RESUPINATUM* L.**Persian clover.**

Col. No. 15571. Dastana, Chaharmahal.

**229968.** *CORONILLA VARIA* L. Fabaceae.**Crownvetch.**

Col. No. 15562. Dastana, Chaharmahal. Elevation 6,800 feet. Spreading perennial; stems to 2 feet long; liked by animals.

**229969 and 229970.** *VICIA VILLOSA* Roth Fabaceae.**Hairy vetch.****229969.** Col. No. 15559. Esfahan. Elevation 5,300 feet. Annual, winter and spring herb.**229970.** Col. No. 15582. Seven miles northwest of Shahr-Kord, Chaharmahal. Elevation 7,000 feet. Spontaneous herb; flowers purple.**229971** *VIGNA SINENSIS* (Torner) Savi Fabaceae.**Common cowpea.**

Col. No. 15579. Saman, Chaharmahal.

**229972.** (Undetermined.) Brassicaceae.

Col. No. 14885. Fourteen miles south of Esfahan. May 26, 1955. Elevation 5,000 feet. Small, gray-canescens, sedum-like, herbaceous perennial; attractive ornamental border plant.

**229973.** *CAMELLIA HONGKONGENSIS* Seem. Theaceae.

From Hong Kong. Seeds presented by the Gardens Division, Urban Services Department, Victoria. Received Nov. 8, 1955.

**229974 to 229983.**

From Spain. Seeds collected by J. R. Furr, Valencia. Received Nov. 10, 1955.

From Castellon de la Plana, unless otherwise noted.

**229974 and 229975.** *CITRUS RETICULATA* Blanco Rutaceae.**Mandarin orange.****229974.** 'Seedless Clementine'. Collected at Albalat dels Sorells.**229975.** 'Mandarina Comun'. Seeds slightly flattened, prolific, good quality.**229976 to 229983.** *CITRUS SINENSIS* (L.) Osbeck**Sweet orange.****229976.** 'Communa'. Fruits large, round, seedy.**229 77.** 'Doblefina'. Fruits smooth, oval, medium sized; juice reddish.**229978.** 'En refina'. Fruits with rough skin, medium sized; juice reddish.**229979.** 'Salustiana'. Fruits round, nearly seedless, medium sized, ripens early.**229980.** 'Salustiana'. Fruits round, nearly seedless, medium sized, ripens early.

Collected at Albalat Dels Sorells.

**229981.** 'Sanguinelli'. Fruits medium sized, high quality; juice red.**229982.** 'Verna'. Fruits medium sized, oval, late ripening.**229983.** 'Viciado'. Fruits round; seeds few; ripens midseason.**229984 and 229985.** *SACCHARUM* (hybrids). Poaceae.**Sugarcane.**

From Hawaii. Cuttings presented by the Experiment Station, Hawaiian Sugar Planters Association, Honolulu. Received Nov. 10, 1955.

**229984.** Mol. 4826.**229985.** Mol. 5193.**229986.** *ORYZA SATIVA* L. Poaceae.**Rice.**

From India. Seeds presented by the Indian Agricultural Research Institute, New Delhi. Received Nov. 14, 1955.

'Chinoor'. Supplied by the Government of Madhya Pradesh.

**229987. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.**

From Iran. Seeds presented by G. H. Blackmon, Mashad. Received Nov. 14, 1955.

'Shakhteh'. Long, green, gray-striped melon; flesh sweet, firm; moderately smooth.

**229988 to 230079.**

From Great Britain. Plants presented by the Knap Hill Nursery, Woking, Surrey, England. Received Nov. 14, 1955.

**229988 to 230073. RHODODENDRON × KOSTERIANUM Schneid. Ericaceae.****Azalea.**

Knap Hill Hybrids.

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|--------------------------------|----------------------------------|
| 229988. 'Ada Brunieres'.       | 230024. 'Knap Hill Yellow'.      |
| 229989. 'Albatross'.           | 230025. 'Lady Derby'.            |
| 229990. 'Ann Callingham'.      | 230026. 'Lady Rosebery'.         |
| 229991. 'Avocet'.              | 230027. 'Lapwing'.               |
| 229992. 'Barbara Jenkinson'.   | 230028. 'Linnet'.                |
| 229993. 'Bullfinch'.           | 230029. 'Marion Merriman'.       |
| 229994. 'Buzzard'.             | 230030. 'Mephistopheles'.        |
| 229995. 'Chaffinch'.           | 230031. 'Merlin'.                |
| 229996. 'Colin Kendrick'.      | 230032. 'Mrs. S. Waterer'.       |
| 229997. 'Donald Waterer'.      | 230033. 'Mrs. Gomer Waterer'.    |
| 229998. 'Eva Goude'.           | 230034. 'Muriel Watson Jones'.   |
| 229999. 'Firecrest'.           | 230035. 'Penguin'.               |
| 230000. 'Fireglow'.            | 230036. 'Peregrine'.             |
| 230001. 'Flaming June'.        | 230037. 'Red Indian'.            |
| 230002. 'Florence Pilkington'. | 230038. 'Redstart'.              |
| 230003. 'Gannett'.             | 230039. 'Rosella'.               |
| 230004. 'Golderest'.           | 230040. 'Ruth Davies'.           |
| 230005. 'Goldfinch'.           | 230041. 'Sandpiper'.             |
| 230006. 'Golden Eagle'.        | 230042. 'Satan'.                 |
| 230007. 'Golden Oriole'.       | 230043. 'Spoonbill'.             |
| 230008. 'Goldeneye'.           | 230044. 'Sunset'.                |
| 230009. 'Gwenda Kitkat'.       | 230045. 'Sylphides'.             |
| 230010. 'Gwyneth'.             | 230046. 'Tanager'.               |
| 230011. 'Hawfinch'.            | 230047. 'Toucan'.                |
| 230012. 'Heron'.               | 230048. 'Troupial'.              |
| 230013. 'Hiawatha'.            | 230049. 'Violet Gordon'.         |
| 230014. 'Homebush'.            | 230050. 'Viscosepala'.           |
| 230015. 'Hoopoe'.              | 230051. 'Whitethroat'.           |
| 230016. 'Iora'.                | 230052. 'Wryneck'.               |
| 230017. 'Joek Coutts'.         | 230053. 'Yaffle'.                |
| 230018. 'Kestrel'.             | 230054. 'Ambroise Verschaffell'. |
| 230019. 'Knap Hill Apricot'.   | 230055. 'Chevalier de Reali'.    |
| 230020. 'Knap Hill Orange'.    | 230056. 'Chicago'.               |
| 230021. 'Knap Hill Pink'.      | 230057. 'Consul Ceresole'.       |
| 230022. 'Knap Hill Red'.       | 230058. 'Dr. Reitenbach'.        |
| 230023. 'Knap Hill White'.     | 230059. 'F. de Koninek'.         |



**229988 to 230079—Continued****229988 to 230073—Continued**

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|-------------------------------------|----------------------------------|
| <b>230060.</b> 'Frans van dev Bom'. | <b>230067.</b> 'King Albert'.    |
| <b>230061.</b> 'General Velter'.    | <b>230068.</b> 'Marmion'.        |
| <b>230062.</b> 'Goldball'.          | <b>230069.</b> 'Nicholas Beets'. |
| <b>230063.</b> 'Golden Sunlight'.   | <b>230070.</b> 'Queen Emma'.     |
| <b>230064.</b> 'Hamlet'.            | <b>230071.</b> 'Queen Sophie'.   |
| <b>230065.</b> 'Hugo Koster'.       | <b>230072.</b> 'Robespierre'.    |
| <b>230066.</b> 'Jeanne Oosthoek'.   | <b>230073.</b> 'T. J. Seidel'.   |

**230074 to 230079. RHODODENDRON (hybrids).**

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|-------------------|--|
| <b>230074.</b> A. | <b>230077.</b> E.                      |
| <b>230075.</b> C. | <b>230078.</b> 'Exbury Azalea Brazil'. |
| <b>230076.</b> D. | <b>230079.</b> 'NYS 33'.               |

**230080. CITRUS SINENSIS (L.) Osbeck Rutaceae. Sweet orange.**

From Spain. Seeds collected by J. R. Furr, Carcagente. Received Nov. 15, 1955.  
'Cadenera'.

**230081 and 230082.**

From Japan. Seeds presented by the University of Tokyo, Hongo, Tokyo. Received Nov. 15, 1955.

**230081. CAMELLIA RUSTICANA Hondo Theaceae.**

From Toka-machi, Niigata Prefecture.

**230082. SYMPLOCOS COREANA (Leveille) Ohwi Symplocaceae.**

From Dando National Forest, Aichi Prefecture.

**230083 to 230101.**

From New York. Plant material held at the U. S. Regional Plant Introduction Station, Geneva. Numbered Nov 15, 1955.

From native and naturalized Maryland species collected in 1955 by the Department of Agronomy, University of Maryland, College Park. Seeds unless otherwise noted.

**230083. BROMUS INERMIS Leyss. Poaceae. Brome.**

No. 19. Doughoregan Manor, Ellicott City, Howard County. Seeds from an original lot of foundation Elsberry brome grass, second generation.

**230084 and 230085. DACTYLIS GLOMERATA L. Poaceae. Orchardgrass.**

**230084.** No. 1. John W. Gourdy farm, Snow Hill, Worcester County. Seven-year-old stand; intermittently pastured; used for hay.

**230085.** No. 2 M. Hearn farm, Salisbury, Wicomico County. From a fence row; possibly a 20-year stand.

**230086 to 230092. TRIFOLIUM PRATENSE L. Fabaceae. Red clover.**

**230086.** No. 8. John W. Gourdy farm, Snow Hill, Worcester County. Plant growing in orchard grass; stand about 7 years old.

**230087 to 230091. Wicomico County.**

**230087.** No. 12. Near Athol Neck. Along road in tall weeds and grasses.

**230088.** No. 13. Near Athol Neck. Along road in tall grass and weeds.

**230089.** No. 15. William Bradley farm. One mile north of Hebron. Sixth generation from certified 'Kenland'.

**230090.** No. 16. Clayton Pilchard farm. Two miles south of Quantico. Eight-year-old stand; original source not known.

**230083 to 230101—Continued****230086 to 230092—Continued****230087 to 230091—Continued**

**230091.** No. 17. William Malchow farm, Whitehaven road, 10 miles southwest of Salisbury. Isolated for 15 years; original source unknown.

**230092.** No. 18. D. T. Puffenberger farm, Little Orleans, Allegany County. Ten-year-old strain; original source unknown.

**230093 to 230101. TRIFOLIUM REPENS L.****Whiteclover.**

**230093 to 230095.** Westover, Somerset County.

**230093.** No. 3. Carl Reilhard farm. From a 5-year-old pasture.

**230094.** No. 4. Clarence Hartman farm. From a 7- to 8-year-old pasture.

**230095.** No. 5. Clarence Hartman farm. From a 5- to 6-year-old pasture.

**230096.** No. 6. Olin Davis Sr. farm, Galena, Kent County. From plants growing in 8- to 9-year-old pasture.

**230097.** No. 7. John W. Gourdy farm, Snow Hill, Worcester County. Stand 7 years old.

**230098 to 230100. Wicomico County.**

**230098.** No. 9. Old abandoned farmstead near Quantico. Growing in tall weeds and grasses.

**230099.** No. 10. Old abandoned farm near Athol Neck. Plant growing in tall grass.

**230100.** No. 11. Abandoned farm near Athol Neck. Plant growing in weeds and tall grasses.

**230101.** No. 14. Southeastern shore of Maryland.**230102 to 230105. ORYZA SATIVA L. Poaceae.****Rice.**

From Mexico. Seeds presented by C. Roy Adair, Tierra Blanca, Veracruz. Received Nov. 15, 1955.

**230102.** 'Criollo'. Field near Tierra Blanca

**230103.** 'Fortuna (Morado)'. Durango Ranch.

**230104.** 'Meco' or 'Jojutla'. Durango Ranch.

**230105.** 'Reata' or 'Riata'. Durango Ranch.

**230106 and 230107.**

From Australia. Seeds presented by Ed. Pollock, Parkes, New South Wales. Received Nov. 15, 1955.

**230106. CITRUS ASSAMENSIS Dutta & Bhatt. Rutaceae.**

Tree to 20 feet high, very thorny; foliage moderately dense; susceptible to gummosis and canker. Fruits September to November.

**230107. CITRUS MACROPTERA Mont.**

Tree to 50 feet high, very thorny, thickly branched; said to be hardy and long-lived. Fruits November to January.

**230108. SCHEFFLERA ACTINOPHYLLA (Endl.) Harms Araliaceae.**

From Cuba. Seeds presented by Atkins Garden, Cienfuegos. Received Nov. 15, 1955.

**230109. AESCULUS sp. Aesculaceae.**

From France. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 16, 1955.

Col. No. 15827. Parks of Paris. Sept. 27, 1955. Tall, well-formed shade tree.

**230110 to 230140.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 16, 1955.

**230110.** *LOLIUM PERSICUM* Boiss. & Hohen. Poaceae. **Ryegrass.**

Col. No. 15619 Faridan. Aug. 28, 1955. Elevation 7,000 feet. Grass slender; culms arched; to 16 inches high.

**230111.** *BROMUS* sp. Poaceae.

Col. No. 15641. Eight miles northeast of Ab'Ali, Alborz Range. Sept. 8, 1955. Elevation 8,000 feet. Bunch perennial to 2 feet high on steep shale slope.

**230112 to 230114** *BRACHYPODIUM PINNATUM* (L.) Beauv. Poaceae. **Japanese falsebrome.**

**230112.** Col. No. 15699. Thirty miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 6,500 feet. Perennial on rocky sedimentary slope.

**230113.** Col. No. 15719. Eight miles south of Kalow, Caspian side of Alborz. Sept. 12, 1955. Elevation 1,000 feet. Perennial on steep sedimentary slope.

**230114.** Col. No. 15798. Fifty-four miles east of Gorgan. Sept. 15, 1955. Elevation 1,200 feet. Leafy-crowned perennial.

**230115 and 230116.** *DACTYLIS GLOMERATA* var. *HISPANICA* (Roth.) Duby Poaceae.

**230115.** Col. No. 15613. East slope of Kuhe Zard, Chaharmahal. Aug. 27, 1955. Elevation 9,000 feet. Small perennial on rocky slope.

**230116.** Col. No. 15653. Elevation 8,000 feet. Xerophytic perennial on rocky slopes.

**230117 and 230118.** *DACTYLIS GLOMERATA* L. **Orchardgrass.**

**230117.** Col. No. 15695. Forty miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 7,500 feet. Perennial on steep sedimentary slope.

**230118.** Col. No. 15701. Thirty miles south of Kalow, Caspian side of Alborz. Sept. 12, 1955. Elevation 6,500 feet. Perennial on sedimentary slope.

**230119.** *ELYMUS* sp. Poaceae.

Col. No. 15666. South slope of Damavand Mountain, Alborz Range. Sept. 9, 1955. Elevation 9,300 feet.

**230120.** *POA* sp. Poaceae.

Col. No. 15603. East base of Kuhe Zard, Chaharmahal. Aug. 27, 1955. Elevation 8,500 feet. Leafy perennial in moist soil.

**230121.** *FESTUCA* sp. Poaceae.

Col. No. 15655. South slope of Damavand Mountain, Alborz Range. Sept. 19, 1955. Elevation 9,300 feet. Small tufted perennial.

**230122.** *FESTUCA* sp.

Col. No. 15658. South slope of Damavand Mountain, Alborz Range. Sept. 9, 1955. Elevation 9,300 feet. Small, rather delicate perennial, in moist gulch.

**230123.** *FESTUCA* sp.

Col. No. 15667. South slope of Damavand Mountain, Alborz Range. Sept. 9, 1955. Elevation 9,300 feet. Short culm bunchgrass, in moist gulch.

**230124.** *AGROSTIS ALBA* L. Poaceae. **Redtop.**

Col. No. 15672. Near Ab'Ali, Alborz Range. Sept. 9, 1955. Elevation 7,000 feet. Dense crowned perennial; leaves spreading; soil moist.

**230125.** *FESTUCA* sp. Poaceae.

Col. No. 15686. Gach Sar, Alborz Range. Sept. 11, 1955. Elevation 6,800 feet. Low perennial; leaves short, dense; soil moist.

**230110 to 230140—Continued****230126. *FESTUCA* sp.**

Col. No. 15702. Thirty miles south of Kalow, Caspian side of Alborz. Sept. 12, 1955. Elevation 6,500 feet. Short-tufted perennial, on sedimentary rocks.

**230127. *HORDEUM* sp. Poaceae.**

Col. No. 15637. Dastana, Chaharmahal. Aug., 1955. Elevation 6,500 feet. Winter and spring annual on rocky soil.

**230128 and 230129. *POA PRATENSIS* L. Poaceae. **Kentucky bluegrass.****

**230128.** Col. No. 15575. Dastana, Chaharmahal. Aug. 24, 1955. Elevation 6,700 feet. Leafy hydrophytic perennial.

**230129.** Col. No. 15599. East base of Kuhe Zard, Chaharmahal. Aug. 27, 1955. Elevation 8,500 feet. Perennial in moist soil.

**230130. *POA* sp.**

Col. No. 15660. South slope of Damavand Mountain, Alborz Range. Sept. 9, 1955. Elevation 9,300 feet. Perennial in moist gulch.

**230131. *POA* sp.**

Col. No. 15661. South slope of Damavand Mountain, Alborz Range. Sept. 9, 1955. Elevation 9,300 feet. Perennial with numerous culms.

**230132. *POA PRATENSIS* L. **Kentucky bluegrass.****

Col. No. 15663. South slope of Damavand Mountain, Alborz Range. Sept. 9, 1955. Elevation 9,300 feet. Colonial perennial in moist gulch.

**230133. *SECALE* sp. Poaceae.**

Col. No. 15205. Dastana, south of Shahr-Kord. July 9, 1955. Elevation 6,800 feet. Spring annual.

**230134. *SETARIA* sp. Poaceae.**

Col. No. 15620. Faridan. Aug. 28, 1955. Elevation 7,000 feet. Annual weed.

**230135. *SETARIA* sp.**

Col. No. 15677. Near Ab'Ali, Alborz Range. Sept. 10, 1955. Elevation 6,000 feet. Tender annual weed.

**230136. *SETARIA ITALICA* (L.) Beauv. **Foxtail millet.****

Col. No. 15681. 'Arzan'. Sixteen miles north of Karaj, Alborz Range. Sept. 11, 1955. Elevation 5,000 feet. Annual to 1 foot high; seeds edible, also used for bird seed.

**230137. *SPOROBOLUS* sp. Poaceae.**

Col. No. 15450. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Hydrophyte; foliage dense.

**230138. *SPOROBOLUS* sp.**

Col. No. 15451. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Black-top hydrophyte; leaf cover very dense.

**230139. *STIPA* sp. Poaceae.**

Col. No. 15648. South slope of Damavand Mountain, Alborz Range. Sept. 8, 1955.

**230140. *STIPA* sp.**

Col. No. 15703. Thirty miles south of Kalow, Caspian side of Alborz. Sept. 12, 1955. Elevation 6,500 feet. Perennial on rocky slope.

**230141. *TELOPEA SPECIOSISSIMA* (J. E. Sm.) R. Br. **Proteaceae. *Crimson waratah.*****

From Australia. Seeds presented by H. G. Kershaw, Pymble, New South Wales. Received Nov. 17, 1955.



**230142. CARPODETUS SERRATUS** Forst. Escalloniaceae.

From New Zealand. Seeds presented by Duncan & Davies, Ltd., New Plymouth.  
Received Nov. 17, 1955.

**230143. LOPHANTHERA LACTESCENS** Ducke Malpighiaceae.

From Brazil. Seeds presented by the Jardim Botânico, Rio de Janeiro, through  
Robert Godbey, Kendall, Fla. Received Nov. 17, 1955.

**230144. ALLOPHYLUS AFRICANUS** P. Beauv. Sapindaceae.

From Northern Rhodesia. Seeds presented by the Silviculturist Forest Department,  
Ndola. Received Nov. 17, 1955.

**230145 to 230157.**

From India. Seeds presented by the Indian Botanical Garden, Calcutta. Received.  
Nov. 17, 1955.

**230145. ABROMA AUGUSTA** L. f. Sterculiaceae.

**230146. CAREYA AUSTRALIS** (Benth.) F. Muell. Lecythidaceae.

**230147. GAUZUMA ULMIFOLIA** Lam. Sterculiaceae.

**230148. HELICTERES ISORA** L. Sterculiaceae.

**230149. HERITIERA FOMES** Buch. Ham. Sterculiaceae.

**230150. HERITIERA** sp.

No. 1.

**230151. HERITIERA** sp.

No. 2.

**230152. MELOCHIA CORCHORIFOLIA** L. Sterculiaceae.

**230153. PTEROSPERMUM ACERIFOLIUM** (L.) Willd. Sterculiaceae.

**230154. PTEROSPERMUM SEMISAGITTATUM** Buch.-Ham.

**230155. PTERYGOTA ALATA** (Roxb.) R. Br. Sterculiaceae.

**230156. STERCVLIA ROXBURGHII** Wall. Sterculiaceae.

**Bottletree.**

**230157. STERCVLIA VILLOSA** Roxb.

**Bottletree.**

**230158 to 230173.**

From India. Seeds presented by D. Raghava Reddy, Penagaluru, Cuddapah. Re-  
ceived Nov. 18, 1955.

**230158. ALBIZZIA AMARA** (Roxb.) Boivin. Mimosaceae.

**230159. BAUHINIA** sp. Caesalpinaceae.

**230160. BUCHANANIA LATIFOLIA** Roxb. Anacardiaceae.

**230161. CANTHIUM DIDYMU** Roxb. Rubiaceae.

**230162. CHLOROXYLON SWIETENIA** DC. Rutaceae.

**230163. COMBRETUM** sp. Combretaceae.

**230164. DALBERGIA LANCEOLARIA** L. f. Fabaceae.

**230165. GLYCOSMIS PENTAPHYLLA** (Retz.) Correa Rutaceae.

**230166. HEMICYCLIA SEPIARIA** Wight & Arn. Euphorbiaceae.

**230167. JASMINUM ANGUSTIFOLIUM** Willd. Oleaceae.

**230168. MILLINGTONIA HORTENSIS** L. f. Bignoniaceae.

**230169. POLYALTHIA CERASOIDES** Benth. & Hook. Annonaceae.

**230170. RANDIA MALABARICA** Lam. Rubiaceae.

**230171. RANDIA ULIGINOSA** (Retz.) Poir.

**230172. SAPINDUS TRIFOLIATA** L. Sapindaceae.

**Treeleaf soapberry.**

**230173. WALSURA PISCIDIA** Roxb. Meliaceae.

**230174 and 230175.**

From Australia. Seeds presented by Dawson Harrison Proprietary, Limited, Perth.  
Received Nov. 18, 1955.

**230174.** *BEAUFORTIA SQUARROSA* Schauer Myrtaceae.

**230175.** *GREVILLEA WILSONII* A. Cunn. Proteaceae.

**230176.** *COFFEA* sp. Rubiaceae.

From the Philippines. Seeds presented by A. G. Newhall, Manila. Received Nov. 18, 1955.

**230177 to 230179.**

From Spain. Seeds collected by J. R. Furr, Valencia. Received Nov. 28, 1955.  
Collected in Murcia.

**230177 and 230178.** *CITRUS LIMON* (L.) Burm. f. Rutaceae. **Lemon.**

**230177.** 'Primofiori'.

**230178.** 'Verna'. Skin thick, smooth; nipple prominent; seeds few.

**230179.** *CITRUS SINENSIS* (L.) Osbeck **Sweet orange.**  
'Macetera'.

**230180 and 230181.**

From New York. Plants growing at the Regional Plant Introduction Station,  
Geneva. Numbered Nov. 21, 1955.

Originally from Turkey; collected in 1949 by J. R. Harlan.

**230180.** *CUCURBITA MAXIMA* Duchesne Cucurbitaceae. **Squash.**

Fruits flat, ribbed, about 14 inches in diameter; color brownish-gray; flesh deep orange, about 2 inches thick; late maturing.

**230181.** *CUCURBITA PEPO* L. **Pumpkin.**

Fruits globose, sharply ribbed; color dark green, 3.5 inches in diameter; flesh light orange, about 0.66 inch thick.

**230182.** *LINUM USITATISSIMUM* L. Linaceae. **Flax.**

From Yugoslavia. Seeds presented by an unknown donor, Ovcara. Received Nov. 21, 1955.

'Pfeiffer Ovcara 101'.

**230183.** *TRIFOLIUM REPENS* L. Fabaceae. **Whiteclover.**

From Argentina. Seeds presented by Agrolit, Rosario. Received Nov. 18, 1955.

**230184 to 230186.** *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**

From Iran. Seeds presented by the United States Operations Mission to Iran,  
Esfahan. Received Nov. 18, 1955.

**230184.** No. 3. Skin yellow, somewhat thin; flavor fair.

**230185.** No. 2. 'Gorgab'. Skin thick, yellow; flavor good; grown in Gorgab north of Esfahan.

**230186.** No. 1. 'Kat Khoda Hossaini'. Green-skin variety.

**230187.** *CITRUS* sp. Rutaceae.

Origin and donor unknown. Received Nov. 18, 1955. (Budwood.)

**230188.** *BAUHINIA* sp. Caesalpiniaceae.

From Florida. Plant growing at the United States Plant Introduction Station,  
Miami. Numbered Nov. 23, 1955.

Seed presented by Henry Field, Coconut Grove. Originally from India. No. 2.

**230189. MISCANTHUS JAPONICUS (Thunb.) Oerst. Poaceae. Japanese silvergrass.**

From New Caledonia Seed presented by J. Barrau, South Pacific Commission.  
Noumea. Received Nov. 23, 1955.

**230190. LOTUS CORNICULATUS L. Fabaceae. Birdsfoot trefoil.**

From Denmark. Seeds presented by Det Kongelige Danske, Landhusholdnings-selskab, Copenhagen. Received Nov. 28, 1955.  
No. 550/21.

**230191. ZINNIA ACEROSA A. Gray Asteraceae.**

From Mexico Seeds presented by Jerzy Rzedowski, Universidad Autonoma de San Luis Potosi City. Received Nov. 22, 1955.

Collected on alluvial soil at Antiguo Morelos, 3 km. south of Presa de Guadalupe. Elevation 1,300 meters.

**230192 to 230201.**

From the Philippines. Seeds presented by the United States Operations Mission, Manila. Received Nov. 22, 1955.

**230192 to 230199. ARACHIS HYPOGAEA L. Fabaceae. Peanut.**

Introduced from Formosa.

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|---------------------------------------|---------------------------------------|
| <b>230192.</b> 'E.G.'- Local variety. | <b>230196.</b> 'Ta Pau Tao.'          |
| <b>230193.</b> 'Husi Yuam'.           | <b>230197.</b> 'Tirik'. Local variety |
| <b>230194.</b> 'Lao Kung Tzu Tou'.    | <b>230198.</b> 'Touti. No. 17'.       |
| <b>230195.</b> 'Lung-Toy-yo Tao'.     | <b>230199.</b> 'Yuan Yung Tou'.       |

**230200 and 230201. GLYCINE MAX (L.) Merr. Fabaceae. Soybean.**

**230200.** 'Bilmoi No. 1'.

**230201.** 'Bilomi. No. 2'.

**230202 to 230204. TRITICUM AESTIVUM L. Poaceae. Common wheat.**

From Kenya. Seeds presented by H. C. Thorpe, Plant Breeding Station, Njoro. Received Nov. 23, 1955.

**230202.** 'Rhodesian Sabanero'.

**230203.** 261. E.

**230204.** W. 1.

**230205 to 230218. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. Sweetpotato.**

From the Philippines. Tubers presented by the Central Experiment Station, College, Laguna. Received Nov. 25, 1955.

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|----------------------------------|------------------------------------|
| <b>230205.</b> 'Borneo White'.   | <b>230212.</b> K 140.              |
| <b>230206.</b> 'Borneo Red'.     | <b>230213.</b> 'Madon'.            |
| <b>230207.</b> C 162.            | <b>230214.</b> 'Palawan No 2'.     |
| <b>230208.</b> 'Dutch Kaliboru'. | <b>230215.</b> 'Putih Selatan'.    |
| <b>230209.</b> F.A. 17.          | <b>230216.</b> 'Samar Big Yellow'. |
| <b>230210.</b> 'Julumdur'.       | <b>230217.</b> 'Tai-nun 31'.       |
| <b>230211.</b> K 2.              | <b>230218.</b> 'Tai-nun 45'.       |

**230219 to 230231.**

From New York. Plants held at the United States Regional Plant Introduction Station, Geneva. Numbered Nov. 28, 1955.

Plant material collected by the Department of Agronomy, Pennsylvania State University, State College, Pennsylvania.

**230219 to 230231—Continued****230219 to 230225. MEDICAGO SATIVA L. Fabaceae.****Alfalfa.**

**230219.** No. 55-1. From the farm of R. S. Schrack, Loganton, Sugar Valley, Clinton County, Pa. Cultivated. Original seed variegated; stand sparse, about 14 years old; crown rot and probably bacterial wilt present throughout field.

**230220.** No. 55-2. From the farm of Louis R. Jones, Ebensburg, Cambria County, Pa. Original seed common northwest variety. Stand about 11 years old; density moderate. Crown rot and bacterial wilt found in field.

**230221.** No. 55-6. From the farm of Dale Corbin, Reynoldsville, Jefferson County, Pa. Cultivated; local strain for 10 years. Originally common northwest type; pure seed of this strain unavailable.

**230222.** No. 55-8. From the farm of C. M. Stahlman, Reynoldsville, Jefferson County, Pa. Cultivated, original seed type unknown. Stand about 10 years old; moderate density; no bacterial wilt and little crown rot found.

**230223.** No. 55-10. Jefferson County Home, Brookville, Pa. 'Grimm'. Cultivated, 3 plant generations removed from original stock.

**230224.** No. 55-11. From the farm of Bernard M. Bauer, Emporium, Cameron County, Pa. 'Grimm'. Cultivated. Stand about 13 years old; no bacterial wilt and little crown rot found in field.

**230225.** No. 55-13. From the farm of Howard L. Burkett, Mann's Choice, Bedford County, Pa. 'Grimm'. Cultivated. Stand about 9 years old; no bacterial wilt and little crown rot found in field.

**230226 to 230231. TRIFOLIUM PRATENSE L. Fabaceae.****Red clover.**

**230226.** No. 55-3. From the farm of Fred Bechel, Nicktown, Cambria County, Pa. Cultivated; medium type. Original source of seed unknown.

**230227.** No. 55-4. From the farm of Harry Hill, Indiana, Indiana County, Pa. Cultivated; mammoth type. Stand about 25 years old.

**230228.** No. 55-5. From the farm of E. E. Griffith, Smicksburg, Indiana County, Pa. Cultivated for 38 years; medium type. Original source of seed unknown.

**230229.** No. 55-7. From the farm of Dale Corbin, Reynoldsville, Jefferson County, Pa. Cultivated; medium type. Stand 10 years old; original source of seed unknown. Mixed seed collected.

**230230.** No. 55-9. From the farm of C. M. Stahlman, Reynoldsville, Jefferson County, Pa. Cultivated; medium type. Stand 10 years old; original source unknown.

**230231.** No. 55-12. From the farm of J. Henry Baker, Everett, Bedford County, Pa. Cultivated; medium type; seeds harvested from this strain for about 50 years. Original source unknown.

**230232 to 230277.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 28, 1955.

**230232. AGROPYRON sp. Poaceae.**

Col. No. 15453. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Rare perennial; growing on rocky slope.

**230233. AGROSTIS sp. Poaceae.**

Col. No. 15442. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Plants forming deep pasture in moist meadow.

**230234. AGROSTIS PALUSTRIS Huds.****Creeping bent.**

Col. No. 15454. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Colonial perennial to 1 foot high.



**230232 to 230277—Continued****230235. AGROSTIS sp.**

Col. No. 15574. Dastana, Chaharmahal. Aug. 24, 1955. Elevation 6,700 feet. Perennial growing along ditch.

**230236. AGROSTIS sp.**

Col. No. 15598. East base of Kuhe Zard, Chaharmahal. Aug. 27, 1955. Elevation 8,500 feet. Small tufted perennial.

**230237 and 230238. AMNI OPTICUM L. Apiaceae.**

**230237.** Col. No. 15748. Market, Babol, Caspian plain. Sept. 13, 1955. Used for seasoning food.

**230238.** Col. No. 15790. 'Anis'. Market in Gorgan. Sept. 14, 1955. Cultivated; used for seasoning food.

**230239. BRACHIARIA ERUCAEFORMIS (J. E. Smith) Griseb. Poaceae.**

Col. No. 15581. Saman, Chaharmahal. Aug. 25, 1955. Elevation 6,500 feet. Weedy, succulent annual.

**230240. FESTUCA sp. Poaceae.**

Col. No. 15696. Thirty-five miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 7,000 feet. Thin, colonial perennial.

**230241. BRACHYPODIUM sp. Poaceae.**

Col. No. 15697. Thirty-five miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 7,000 feet. Tall perennial on cliff.

**230242. CALAMAGROSTIS sp. Poaceae.**

Col. No. 15662. South slope of Damavand Mountain, Alborz Range. Sept. 9, 1955. Elevation 9,300 feet. Rather coarse perennial in moist gulch.

**230243. DAUCUS CAROTA L. Apiaceae.****Carrot.**

Col. No. 15393. Market, Maragheh, Azerbaijan. Aug. 1, 1955. Elevation 6,300 feet.

**230244. ECHINOCHLOA sp. Poaceae.**

Col. No. 15673. Near Ab'Ali, Alborz Range. Sept. 10, 1955. Elevation 6,000 feet. Tall, rather succulent annual.

**230245. EREMURUS sp. Liliaceae.**

Col. No. 15117. Kowkun Valley, Fars. June 28, 1955. Elevation 7,500 feet.

**230246. FESTUCA sp. Poaceae.**

Col. No. 15267. Nineteen miles west of Hamedan. July 24, 1955. Elevation 9,000 feet. Thin-leaved, tufted perennial; crown to 6 inches high. Browsed.

**230247. FESTUCA sp.**

Col. No. 15272. Five miles north of Kermanshah. July 26, 1955. Elevation 6,000 feet. Tufted perennial.

**230248. FESTUCA KRONENBURGHII Hack.****Fescue.**

Col. No. 15682. Nineteen miles north of Karaj, Alborz Range. Sept. 11, 1955. Elevation 6,000 feet. Large, coarse bunchgrass.

**230249. PUCCINELLIA sp. Poaceae.**

Col. No. 15364. Southern plain of Lake Rezaiyeh, Azerbaijan. July 31, 1955. Perennial forming loose cover.

**230250. GLYCERIA sp. Poaceae.**

Col. No. 15456. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Leafy grass with silvery panicles.

**230251. GYPSOPHILA sp. Silenaceae.**

Col. No. 15815. Ten miles west of Firuzkuh, Alborz Range. Sept. 17, 1955. Elevation 6,800 feet. Cushion plant forming smooth bluish-green pillows on rocks.

**230232 to 230277—Continued**

**230252.** *HERACLEUM* sp. Apiaceae.

Col. No. 15602. East base of Kuhe Zard, Chaharmahal. Aug. 7, 1955. Elevation 8,500 feet. Wild perennial; seeds used for seasoning.

**230253.** *HERACLEUM* sp.

Col. No. 15752. Babol, Caspian plain. Sept. 13, 1955. Seeds used in pickling.

**230254.** *HORDEUM TURKESTANICUM* Nevski Poaceae.

**Barley.**

Col. No. 15669. South slope of Damavand Mountain, Alborz Range. Sept. 9, 1955. Elevation 10,000 feet. Coarse, bunch perennial.

**230255.** *HORDEUM* sp.

Col. No. 15447. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Perennial thriving on dry meadow slopes.

**230256.** *KOELERIA CRISTATA* (L.) Pers. Poaceae.

Col. No. 15506. Northeast slope of Kuhe Savalan, Azerbaijan. Aug. 9, 1955. Elevation 9,500 feet. Red-stemmed perennial.

**230257.** *LALLEMANTIA IBERICA* (Bieb.) Fisch. & May. Menthaceae.

Col. No. 15357. Thirty miles south of Saghez, Kurdistan. July 29, 1955. Elevation 8,000 feet. Annual herb to 2 feet high. Seed used for oil and on bread.

**230258.** *LALLEMANTIA* sp.

Col. No. 15769. 'Shaibahti'. Market, Sari, Caspian plain. Sept. 14, 1955. Seeds used as medicine.

**230259.** *LALLEMANTIA PELATA* (L.) Fisch. & Mey.

Col. No. 15775. 'Babunch'. Market, Gorgan. Sept. 14, 1955. Spicy herb; eaten with bread and cheese.

**230260.** *LOLIUM PERENNE* L. Poaceae.

**Ryegrass.**

Col. No. 15295. Forty miles north of Kermanshah along road to Sanandaj. July 27, 1955. Elevation 7,000 feet. Leafy perennial used for hay.

**230261.** *MELICA* sp. Poaceae.

Col. No. 15566. Mountain southwest of Dastana, Chaharmahal. Aug. 23, 1955. Elevation 10,000 feet. Fine-leaved perennial; culms 1 foot high.

**230262.** *MELICA* sp.

Col. No. 15612. East slope of Kuhe Zard, Chaharmahal. Aug. 27, 1955. Elevation 9,500 feet. Delicate perennial among rocks.

**230263.** *MELICA* sp.

Col. No. 15646. South slope of Damavand Mountain, Alborz Range. Sept. 8, 1955. Elevation 8,000 feet. Xerophytic perennial.

**230264.** *MELICA* sp.

Col. No. 15698. Thirty miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 6,500 feet. Perennial on sedimentary slope.

**230265.** *SATUREJA HORTENSIS* L. Menthaceae.

**Summer savory.**

Col. No. 15779. 'Marzeh'. Market in Gorgan. Sept. 15, 1955. Plant used as a green leafy spice or relish vegetable.

**230266.** *ORYZOPSIS* sp. Poaceae.

Col. No. 15642. Eight miles northeast of Ab'Ali, Alborz Range. Sept. 8, 1955. Elevation 8,000 feet. Perennial in broad bunches; culms numerous, 20 inches high.

**230267.** *PHALARIS* sp. Poaceae.

Col. No. 15486. Kuhe Sion between Sarab and Ardabil, Azerbaijan. Aug. 6, 1955. Elevation 8,500 feet. Small, tufted perennial.

**230232 to 230277—Continued****230268.** *PHLEUM ALPINUM* L. Poaceae.**Alpine timothy.**

Col. No. 15475. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 5, 1955. Elevation 10,000 feet. Small perennial.

**230269.** *RUMEX* sp. Polygonaceae.

Col. No. 15593. Kuhe Rang, Chaharmahal. Aug. 26, 1955. Elevation 8,000 feet. Tall herb on rocky slope; seeds edible.

**230270.** *RUMEX* sp.

Col. No. 15609. East slope of Kuhe Zard, Chaharmahal. Aug. 27, 1955. Elevation 9,000 feet. Seeds used in medicine.

**230271.** *SOPHORA ALOPECUROIDES* L. Fabaceae.

Col. No. 15160. 'Makh safid'. Bavanat Valley, Fars. July 1, 1955. Elevation 7,000 feet. An erect perennial to 1.5 feet high; flowers white; used as green manure in orchards.

**230272.** *SOPHORA* sp.

Col. No. 15622. 'Mayju'. Northwest of Damaneh, Faridan. Aug. 28, 1955. Elevation 7,000 feet. Widespread, deep-rooted perennial; used as green manure.

**230273.** *STIPA* sp. Poaceae.

Col. No. 15818. Between Firuzkuh and Damavand, Alborz Range. Sept. 17, 1955. Elevation 7,500 feet. Xerophytic, palatable perennial.

**230274.** *TRIFOLIUM HYBRIDUM* L. Fabaceae.**Alsike clover.**

Col. No. 15439. Northeast base of Kuhe Sahand, Azerbaijan. Aug. 4, 1955. Elevation 10,000 feet. Leafy, spreading perennial growing in moist meadow; flowers pink.

**230275.** *VICIA NARBONENENSIS* L. Fabaceae.**Vetch.**

Col. No. 15042. Dasht Arjan, Fars. June 15, 1955. Elevation 6,600 feet. Annual broad-leaved herb.

**230276.** (Undetermined). Menthaceae.

Col. No. 15266. Near Esfahan. July 16, 1955. Elevation 5,500 feet. Aromatic, ornamental and fragrant herb.

**230277.** (Undetermined.) Apiaceae.

Col. No. 15307. East base of Kuhe Zard, Chaharmahal. Aug. 27, 1955. Elevation 8,500 feet. Growing among rocks; used for seasoning food.

**230278.** *CAMELLIA JAPONICA* L. Theaceae.**Common camellia.**

From Japan. Seeds presented by the Aichi Prefecture Horticultural Experiment Station, Kiyosu-Cho, Aichi-ken. Received Nov. 29, 1955.

**230279 to 230318.**

From Mexico. Roots collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Nov. 29, 1955.

**230279 to 230292.** *DIOSCOREA COMPOSITA* Hemsl. Dioscoreaceae.**Yam.****230279.** Col. No. 15854. 'Barbasco'. Los Mangas, Rancho Progreso, 5 miles south of Tierra Blanca, Veracruz. Nov. 5, 1955. Vines rather dense in milpa clearing.**230280.** Col. No. 15855. 'Barbasco'. Five miles south of Tierra Blanca, near Rancho Candelario, Veracruz. Nov. 5, 1955. Vines scattered; roots nearly white; soil rich, black, moist clay.**230281.** Col. No. 15856. Seven miles south of Tierra Blanca at Rancho Loma del Carmen. Forest patch in savanna, Veracruz. Nov. 6, 1955. Vines large, vigorous, in shade; roots white or reddish; soil deep clay.



## 230279 to 230318—Continued

## 230279 to 230292—Continued

230282. Col. No. 15858. Temescal, Oaxaca. In milpa clearing; a foot of dark brown forest soil over laterite. Nov. 6, 1955. Small shoots from scattered tubers; roots white to reddish.
230283. Col. No. 15859. Arroyo Chuapa, 8 miles west of Tuxtepec, Oaxaca. Milpa clearing. Nov. 7, 1955. New shoots from partially dug plants; roots white to reddish.
230284. Col. No. 15860. Fifteen to 22 miles west of Tuxtepec, Oaxaca. Forested limestone slope. Nov. 7, 1955. Plants small to large; new shoots from cut stems in cleared land.
230285. Col. No. 15861. Fifteen miles west of Tuxtepec, Oaxaca. Nov. 7, 1955. Vine climbing to 30 feet, 3 stems from the base; leaves large.
230286. Col. No. 15864. 'Barbasco'. Seven miles south of Tierra Blanca, Loma del Carmen, Veracruz. Forest patch in savanna. Nov. 8, 1955. Vine large; root horizontal, white.
230287. Col. No. 15869. 'Barbasco'. Fourteen miles south of Santiago Tuxtla, Veracruz. Nov. 9, 1955. Low evergreen silva. Elevation 500 feet. Vines coarse, climbing; roots tuberous, mostly white.
230288. Col. No. 15871. One mile north of San Andres Tuxtla, Veracruz. Nov. 9, 1955.
230289. Col. No. 15872. Ten miles east of San Andres Tuxtla along road to Puerto Mexico, Veracruz. Nov. 10, 1955. Vine large; roots white to reddish.
230290. Col. No. 15873. Fourteen miles east of San Andres Tuxtla along road to Puerto, Veracruz. Nov. 10, 1955. Vine large; stem to 1 inch in diameter; root large, white to pink.
230291. Col. No. 15874. 'Barbasco Blanco'. Fourteen miles east of San Andres Tuxtla along road to Puerto Mexico, Veracruz. Nov. 10, 1955. Vines large; shoots new; roots deeply descending, white.
230292. Col. No. 15881. Two and one-half miles off highway to Veracruz along road to Tezonapa and Palmar. Nov. 12, 1955. Cultivated; common 15 to 20 years ago in forest.

230293 to 230298. *DIOSCOREA FLORIBUNDA* Mart. & Gal.

Yam.

230293. Col. No. 15853. 'Barbasco Amarillo'. Four miles west of Las Tinajas along road to Veracruz; soil sandy. Nov. 4, 1955. Plant infrequent; root flesh yellow.
230294. Col. No. 15875. Seven miles west of Veracruz along road to Jalapa. Root flesh yellow; soil black clay.
230295. Col. No. 15876. Three miles east of Plan del Rio along road to Jalapa, Veracruz. Root flesh yellow; soil black clay. Nov. 11, 1955.
230296. Col. No. 15877. Three miles east of Plan del Rio along road to Jalapa from Veracruz. Black loamy soil. Nov. 11, 1955.
230297. Col. No. 15880. San Jose de Abajo, 8 miles east of Cordoba, Veracruz. Nov. 12, 1955.
230298. Col. No. 15890. About 11 miles northwest of Tuxtla Gutierrez along road to San Fernando. Nov. 17, 1955. Root flesh cream-colored.

230299 to 230307. *DIOSCOREA SPICULIFLORA* Hemsl.

Yam.

230299. Col. No. 15886. 'Barbasco de Villa Flores'. Twenty-five miles west of Tuxtla Gutierrez along highway to Oaxaca, Chiapas. Low tropical forest. Nov. 18, 1955. Root flesh white.
230300. Col. No. 15887. 'Barbasco de Villa Flores'. Twenty-five miles west of Tuxtla Gutierrez along highway to Oaxaca, Chiapas. Low tropical forest. Nov. 19, 1955.



**230279 to 230318—Continued****230299 to 230307—Continued**

**230301.** Col. No. 15891. Chiapa, Chiapas. (No field note included.)

**230302.** Col. No. 15892. Five miles southeast of Chiapa on Culebro ranch, Chiapas. Nov. 19, 1955. Heavy clay soil.

**230303.** Col. No. 15893. 'Barbasco de Villa Flores'. Twenty-two miles southwest of Tuxtla Gutierrez along road to Villa Flores, Chiapas. Clay loam over limestone. Nov. 20, 1955. Elevation 2,000 feet. Root flesh white.

**230304.** Col. No. 15894. 'Barbasco de Villa Flores'. Twenty-two miles southwest of Tuxtla Gutierrez along road to Villa Flores, Chiapas. Clay loam over limestone. Nov. 20, 1955. Root flesh white.

**230305.** Col. No. 15896. 'Barbasco de Villa Flores'. Thirty-five miles southwest of Tuxtla Gutierrez along road to Villa Flores, Chiapas. Elevation 3,000 feet. Nov. 20, 1955. Soil sandy.

**230306.** No. 15897. 'Barbasco de Villa Flores'. Thirty-five miles southwest of Tuxtla Gutierrez along road to Villa Flores, Chiapas. Nov. 20, 1955. Elevation 3,000 feet. Soil sandy.

**230307.** Col. No. 15900. Seven miles east of Chiapa along highway to Chiapas. Nov. 21, 1955. Root flesh white.

**230308. DIOSCOREA sp.**

Col. No. 15852. Twenty-three miles east of Cordoba along road to Veracruz. Nov. 4, 1955. Roots small, hard, shallowly splayed.

**230309. DIOSCOREA sp.**

Col. No. 15857. Five miles east of Temescal on Veracruz-Oaxaca border, among limestone rocks. Nov. 6, 1955. Roots small, flattened, flesh white.

**230310. DIOSCOREA CONVULVULACEA Cham. & Schl.****Yam.**

Col. No. 15862. Fifteen miles west of Tuxtepec, Oaxaca. Nov. 7, 1955. Roots discoid.

**230311. DIOSCOREA sp.**

Col. No. 15867. 'Barbasillo'. Four miles south of Santiago Tuxtla, Veracruz. Nov. 9, 1955. Roots orange colored.

**230312. DIOSCOREA sp.**

Col. No. 15868. 'Barbasquillo'. Four miles south of Santiago Tuxtla, Veracruz. Nov. 9, 1955. Roots shallow, discoid.

**230313. DIOSCOREA sp.**

Col. No. 15870. Four miles south of Santiago Tuxtla, Veracruz. Nov. 9, 1955.

**230314. DIOSCOREA sp.**

Col. No. 15878. Five miles north of Huatusco along road to Puente Nacional. Nov. 11, 1955. Plant rare, roots small, tuberous, flesh white; soil dark brown.

**230315. DIODVOREA SPICULIFLORA Hemsl.****Yam.**

Col. No. 15895. Twenty-two miles southwest of Tuxtla Gutierrez along road to Villa Flores, Chiapas. Elevation 2,000 feet. Nov. 20, 1955. Root flesh cream to yellowish; clay loam over limestone.

**230316. DIOSCOREA sp.**

Col. No. 15898. Forty-three miles southwest of Tuxtla Gutierrez along road to Villa Flores, Chiapas. Loamy forest soil. Nov. 20, 1955.

**230317. DIOSCOREA sp.**

Col. No. 15899. Forty-three miles southwest of Tuxtla Gutierrez along road to Villa Flores, Chiapas. Nov. 20, 1955. Loamy forest soil.

**230318. RAUVOLFIA sp. Apocynaceae.**

Col. No. 15866. 'Silvapato'. Fourteen miles south of Santiago, Tuxtla, Veracruz. Nov. 9, 1955. Polypodial, perennial herb.

**230319. CAMELLIA JAPONICA L. Theaceae. Common camellia.**

From Japan. Seeds presented by the Aichi Prefecture Horticultural Experiment Station, Kiyosu-cho, Aichi-ken. Received Nov. 29, 1955.

**230320 and 230321. ZEA MAYS L. Poaceae. Corn.**

From Iowa. Seeds planted at the Regional Plant Introduction Station, Ames. Numbered Nov. 29, 1955.

Presented by the Agricultural Experiment Station, Morgantown, W. Va. Open-pollinated varieties.

**230320.** 'Bloody Butcher'. From Everett Blankenship, Wayne Co., W. Va. Said to have large grains and a small cob.

**230321.** White corn from S. E. Keatley, Bozoo, Monroe Co., W. Va.

**230322 to 230325. GLYCINE JAVANICA L. Fabaceae.**

From the Union of South Africa. Seeds presented by the Division of Botany, Pretoria, Transvaal. Received Nov. 29, 1955.

**230322.** L.E.C. 5492. Skukuza.

**230323.** P 1448. Originally from Tanganyika.

**230324.** P 2397. Aapias River.

**230325.** P 3231. Blauwberg, Transvaal.

**230326. CITRUS sp. Rutaceae.**

From Australia. Seeds presented by Ed Pollock, Mong Road, Parkes, New South Wales. Received Nov. 30, 1955.

'Sipora'. Tree to 30 feet high; suckers numerous; fruit resembling the lemon.

**230327. LYCOPERSICON (hybrid). Solanaceae. Tomato.**

From Ecuador. Seeds presented by the United States Operations Mission to Ecuador, Quito. Received Nov. 30, 1955.

(*L. esculentum* × *pimpinellifolium*.)

Growing wild at Estacion Tropical Experimental de Pichilingue.

**230328 to 230331.**

From Peru. Seeds presented by the United States Operations Mission, Lima. Received Nov. 30, 1955.

**230328 and 230329. ARACHIS HYPOGAEA L. Fabaceae. Peanut.**

**230328.** No. 1.

**230329.** No. 2.

**230330 and 230331. CHENOPodium QUINOA Willd. Chenopodiaceae. Quinoa.**

**230330.** 'Dulce Blanca'.

**230331.** 'Rosada'.

**230332. LOTUS CORNICULATUS L. Fabaceae. Birdsfoot trefoil.**

From Turkey. Seeds presented by the Seed Improvement Station, Eskiseher. Received Nov. 21, 1955.

**230333 to 230335. SOLANUM MELONGENA L. Solanaceae. Eggplant.**

From Japan. Seeds presented by the Aichi Prefecture Horticultural Experiment Station, Kiyosu-cho, Aichi-ken. Received Dec. 1, 1955.

**230333.** 'Kairyo-Onaga'.

**230334.** 'Kitta-Horyo'.

**230335.** 'Taiwan-Naga'.

**230336 and 230337. PIMPINELLA ANISUM L. Apiaceae. Anise.**

From Egypt. Seeds presented by the United States Operations Mission, Cairo. Received Dec. 2, 1955.

**230336. B.**

**230337. C.**

**230338 to 230363.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Dec. 2, 1955.

**230338. CRATAEGUS sp. Malaceae.**

Col. No. 15745. Between Kalow and Babul Sar, along the Caspian shore. Sept. 13, 1955. Spreading shrub; fruits small.

**230339. CHRYSANTHEMUM sp. Asteraceae.**

Col. No. 15253. Canyon above Dastana, south of Shahr-Kord. July 12, 1955. Elevation 7,500 feet. Low, perennial bush.

**230340. CORONILLA VARIA L. Fabaceae. Crownvetch.**

Col. No. 15411. Thirty-four miles northeast of Maragheh, Azerbaijan. Aug. 3, 1955. Elevation 7,500 feet.

**230341. CORNUS sp. Cornaceae.**

Col. No. 15704. Thirty miles south of Kalow, Caspian side of Alborz. Sept. 12, 1955. Elevation 6,500 feet. Slender, monopodial shrub.

**230342. CORNUS sp.**

Col. No. 15712. Twenty-five miles south of Kalow, Caspian slope of Alborz. Sept. 12, 1955. Elevation 6,000 feet. Polypodial, spreading shrub.

**230343. FERULA sp. Apiaceae.**

Col. No. 15616. Kuhe Rang, Chaharmahal. Aug. 28, 1955. Elevation 8,500 feet. Rosette perennial with panicles to 6 feet high on rocky slope.

**230344. GLYCYRRHIZA sp. Fabaceae.**

Col. No. 15572. Dastana, Chaharmahal. Aug. 24, 1955. Elevation 6,700 feet. Annual or short-lived perennial, to 3 feet high. Used as green manure.

**230345. LATHYRUS CICERA L. Fabaceae. Flatpod peavine.**

Col. No. 15584. 'Gavdaneh'. Seven miles northwest of Shahr-Kord, Chaharmahal. Aug. 26, 1955. Elevation 7,000 feet. Annual herb forming thick cover.

**230346. VICIA sp. Fabaceae.**

Col. No. 15189. Near Ghaverokh, along road to Shahr-Kord. July 7, 1955. Elevation 7,700 feet. Branching, vine-like, annual herb.

**230347 and 230348. LOTUS CORNICULATUS L. Fabaceae. Birdsfoot trefoil.**

**230347.** Col. No. 15317. Eleven miles east of Sanandaj, Kurdistan. July 28, 1955. Elevation 8,500 feet.

**230348.** Col. No. 15594. East base of Kuhe Zard, Chaharmahal. Aug. 27, 1955. Elevation 8,500 feet.

**230349. MEDICAGO POLYMORPHA var. VULGARIS (Benth.) Shinnars. Fabaceae. California burclover.**

Col. No. 15156-A. Bajgah. Eight miles east of Shiraz. July 1, 1955. Elevation 5,500 feet.

**230350. MEDICAGO TURBINATA (L.) All. Burclover.**

Col. No. 15558. Esfahan. Aug. 20, 1955. Elevation 5,300 feet.

**230351. MELILOTUS OFFICINALIS (L.) Lam. Yellow sweetclover.**

Col. No. 15213. Dastana, south of Shahr-Kord. July 9, 1955. Elevation 6,800 feet. Spring annual; flowers yellow, to 3 feet high.

**230338 to 230363—Continued**

**230352.** *SATUREJA HORTENSIS* L. Menthaceae. **Summer savory.**

Col. No. 15399. 'Marzeh'. Market, Maragheh. Aug. 1, 1955. Elevation 6,300 feet. Herb used as raw greens and in soups.

**230353 and 230354.** *PISUM SATIVUM* L. Fabaceae. **Garden pea.**

**230353.** Col. No. 15158. 'Gergeroo'. Didigone, Fars. July 1, 1955. Elevation 6,800 feet.

**230354.** Col. No. 15199. 'Kesin'. Twelve miles west of Shahr-Kord, Bakh-tarian, country. July 8, 1955. Elevation 6,800 feet.

**230355.** *PRUNUS* sp. Amygdalaceae.

Col. No. 15246. Near Dastana, south of Shahr-Kord. July 12, 1955. Elevation 7,000 feet. Shrub with sweet, cherry-like fruits.

**230356.** *PRUNUS* sp.

Col. No. 15614. East slope of Kuhe Zard, Chaharmahal. Aug. 27, 1955. Elevation 9,000 feet. Shrub, low, spreading, rock-clinging.

**230357.** *SALIVA* sp. Menthaceae.

Col. No. 15169. Kullykuch, between Dehbid and Abadeh, Fars. July 3, 1955. Elevation 8,000 feet. Low spreading perennial; flowers pink to red.

**230358.** *SALVIA* sp.

Col. No. 15331. Eleven miles east of Sanandaj, Kurdistan. July 28, 1955. Elevation 8,500 feet. Ornamental perennial herb with showy bracts.

**230359.** *TRIFOLIUM FRAGIFERUM* L. Fabaceae. **Strawberry clover.**

Col. No. 15590. Kuhe Rang, Chaharmahal. Aug. 26, 1955. Elevation 8,000 feet.

**230360.** *TRIGONELLA* sp. Fabaceae.

Col. No. 15174. Sixteen miles northwest of Abadeh, Fars. July 3, 1955. Elevation 7,000 feet. Small, diffuse, erect herb.

**230361.** *VICIA MONANTHA* Retz. Fabaceae. **Bard vetch.**

Col. No. 15567. Mountain southwest of Dastana, Chaharmahal. Aug. 23, 1955. Elevation 10,500 feet.

**230362.** *VICIA SATIVA* L. **Common vetch.**

Col. No. 14850. Rhast, south coast of the Caspian Sea. May, 1955. Common along roads and fences.

**230363.** *VICIA* sp.

Col. No. 15412. Thirty-four miles northeast of Maragheh, Azerbaijan. Aug. 3, 1955. Elevation 7,500 feet. Many-stemmed climbing herb; in moist bottom-land.

**230364.** *PHASEOLUS VULGARIS* L. Fabaceae. **Common bean.**

From Mexico. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Dec. 6, 1955.

Col. No. 15889. San Fernando, 13 miles northwest of Tuxtla, Gutierrez, Chiapas. Nov. 17, 1955. Elevation 2,000 feet. Cultivated by the Soqui Indians; planted twice a year; seeds black.

**230365 to 230367.** *TRITICUM DURUM* Desf. Poaceae. **Durum wheat.**

From Chile. Seeds presented by the Agricultural Attache, American Embassy, Santiago. Received Dec. 2, 1955.

**230365.** 'Ferigo Candéal No. 11'.

**230366.** 'Ferigo Candéal No. 18'.

**230367.** 'Ferigo Candéal No. 24'.



**230368. TUTCHERIA SPECTABILIS (Champ.) Dunn. Theaceae.**

From Hong Kong. Seeds presented by the Gardens Division, Urban Services Department, Victoria. Received Dec. 2, 1955.

**230369 to 230390.**

From Sicily. Seeds collected by F. Russo, Acireale. Received Dec. 5, 1955.

**230369. CITRUS AURANTIUM L. Rutaceae.****Sour orange.**

'Sicilian'. Sour orange used for root stock in Italy.

**230370 to 230375. CITRUS LIMON (L.) Burm. f.****Lemon.**

**230370.** 'Arancino (Cocuzzaro)'. Fruits nearly round, high in acid; some resistance to Mal secco.

**230371.** 'Corpaci'. Tree vigorous, thorny; fruits commercial type, high in acid, seedy.

**230372.** 'Feminello Comune'. Fruits finest commercial type, high in acid; seedy; susceptible to Mal secco.

**230373.** 'Interdonato'. Resistant to Mal secco. Fruits large, long nipples, peel medium thick; early.

**230374.** 'Monachello'. Slightly acid variety; resistant to Mal secco.

**230375.** 'Santa Teresa'. Commercial type; high in acid; resistant to Mal secco.

**230376 and 230377. CITRUS RETICULATA Blanco****Mandarin orange.**

**230376.** 'Mandarino Avana' or 'Mandarino Palermo'.

**230377.** 'Mandarino Avana Tardivo'. Late strain of 'Mandarino Avana'.

**230378 to 230389. CITRUS SINENSIS (L.) Osbeck****Sweet orange.**

**230378.** 'Belladonna'. Fruits oval; seeds few.

**230379.** 'Biondo Riccio'. Tree vigorous; fruits very large, rough; early to midseason.

**230380.** 'Moro'. Fruits oval, dark blood; seedless; early.

**230381.** 'Ovale'. Fruits oval; seeds few; late.

**230382.** 'Ovaletto Sanguigno'. Fruit barrel-shaped, early, blood type; seeds few.

**230383.** 'Sanguinello'. Fruit large, flattened; seeds few; high quality blood type.

**230384.** 'Sanguinello Moscato'. Fruits round, blood type; seedless; midseason.

**230385.** 'Sanguinello Moscato Cuscuna'. Fruits oval, blood type, seedless; early.

**230386.** 'Sanguinello a Pignu'. Fruits oval, blood type, nearly seedless; midseason.

**230387.** 'Tarocco'. Blood type; fruit slightly turbinate, seedless; early.

**230388.** 'Vaccaro'. Blood type; fruits round; seeds few; midseason.

**230389.** 'Vaniglia Sanguigno'. Fruits small, low in acid, insipid.

**230390. CITRUS VOLKAMERIANA Pasq.**

Used as rootstock for lemons. Resistant to Mal secco.

**230391 to 230403.**

From Ceylon. Seeds presented by the School of Agriculture, Peradeniya. Received Dec. 5, 1955.

**230391. COFFEA ARABICA L. Rubiaceae.****Arabian coffee.**

'Kents Arabica'.

**230392. COFFEA ABEOKUTAE Cramer****Coffee.****230393. COFFEA ARUWIMENSIS Wildem.****Coffee.**

**230391 to 230403—Continued**

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|----------------|---|------------------|
| <b>230394.</b> | <i>COFFEA EXCELSA</i> Cheval.             | Congo coffee.    |
| <b>230395.</b> | <i>COFFEA LIBERICA</i> Bull.              | Liberian coffee. |
| <b>230396.</b> | <i>COFFEA</i> sp.<br>'Pasiypagor'.        |                  |
| <b>230397.</b> | <i>COFFEA CANEPHORA</i> Pierre ex Froehn. | Coffee.          |
| <b>230398.</b> | <i>COFFEA</i> (hybrid).                   | Coffee.          |
| <b>230399.</b> | <i>COFFEA LAURENTII</i> Wildem.           | Coffee.          |
| <b>230400.</b> | <i>COFFEA QUILLOU</i> Cramer              | Coffee.          |
| <b>230401.</b> | <i>COFFEA CANEPHORA</i> Pierre ex Froehn. | Coffee.          |
| <b>230402.</b> | <i>COFFEA UGANDAE</i> Cramer              | Coffee.          |
| <b>230403.</b> | <i>COFFEA</i> sp.                         |                  |

**230404 to 230427.**

From Australia. Seeds presented by the Botanical Garden, Adelaide. Received Dec. 6, 1955.

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| <b>230404.</b> | <i>CANTUA BUXIFOLIA</i> Lam.             | Polemoniaceae. |
| <b>230405.</b> | <i>EUCALYPTUS ERYTHRONEMA</i> Turcz.     | Myrtaceae.     |
| <b>230406.</b> | <i>EUCALYPTUS MACROCARPA</i> Hook.       |                |
| <b>230407.</b> | <i>EUCALYPTUS MINIATA</i> A. Cunn.       |                |
| <b>230408.</b> | <i>EUCALYPTUS NUTANS</i> F. Muell.       |                |
| <b>230409.</b> | <i>EUCALYPTUS PREISSIANA</i> Schauer     |                |
| <b>230410.</b> | <i>EUCALYPTUS PYRIFORMIS</i> Turcz.      |                |
| <b>230411.</b> | <i>EUCALYPTUS SEPULCRALIS</i> F. Muell.  |                |
| <b>230412.</b> | <i>EUCALYPTUS</i> sp.                    |                |
| <b>230413.</b> | <i>MELALEUCA ACUMINATA</i> F. Muell.     | Myrtaceae.     |
| <b>230414.</b> | <i>MELALEUCA ADNATA</i> Turcz.           |                |
| <b>230415.</b> | <i>MELALEUCA CRASSIFOLIA</i> Benth.      |                |
| <b>230416.</b> | <i>MELALEUCA DEANEI</i> F. Muell.        |                |
| <b>230417.</b> | <i>MELALEUCA ELLIPTICA</i> Labill.       |                |
| <b>230418.</b> | <i>MELALEUCA FULGENS</i> R. Br.          |                |
| <b>230419.</b> | <i>MELALEUCA LATERITIA</i> Otto & Dietr. |                |
| <b>230420.</b> | <i>MELALEUCA MEGACEPHALA</i> F. Muell.   |                |
| <b>230421.</b> | <i>MELALEUCA MICROMERA</i> Schauer       |                |
| <b>230422.</b> | <i>MELALEUCA PUBESCENS</i> Schauer       |                |
| <b>230423.</b> | <i>MELALEUCA PAUCIFLORA</i> Turcz.       |                |
| <b>230424.</b> | <i>MELALEUCA RADULA</i> Lindl.           |                |
| <b>239425.</b> | <i>MELALEUCA STEEDMANII</i> C. A. Gardn. |                |
| <b>230426.</b> | <i>MELALEUCA UNCINATA</i> R. Br.         |                |
| <b>230427.</b> | <i>METROSIDEROS EXCELSA</i> Soland.      | Myrtaceae.     |

**230428 to 230434. PAEONIA SUFFRUTICOSA Andrews. Ranunculaceae.****Tree peony.**

From Japan. Plants presented by Takii & Co., Limited, Kyoto. Received Dec. 6, 1955.

**230428 to 230434—Continued**

- |                            |                           |
|----------------------------|---------------------------|
| 230428. 'Asahi No Sora'.   | 230432. 'Nihon Kurenai'.  |
| 230429. 'Kasumi No Mo Ri'. | 230433. 'Showa Kurenai'.  |
| 230430. 'Kimigayo'.        | 230434. 'Tamanatsu Zuru'. |
| 230431. 'Miyuki Nishiki'.  |                           |

**230435 to 230451.**

From Brazil. Seeds presented by the Instituto Agronómico do Estado de São Paulo, Campinas, São Paulo. Received Dec. 6, 1955.

- |   |               |
|---|---------------|
| 230435. COFFEA (hybrid). Rubiaceae.                     | Coffee.       |
| <i>C. arabica</i> . × <i>dewevrei</i> . C 387.          |               |
| 230436. COFFEA BUKOBENSIS Zimmerm.                      | Coffee.       |
| 230437 and 230438. COFFEA QUILLOU Cramer                | Coffee.       |
| 230437. Seeds round.                                    |               |
| 230438. Seeds pointed.                                  |               |
| 230439 to 230441. COFFEA CONGENSIS var. CHALOTII Pierre | Coffee.       |
| 230439. C 1026-2.                                       |               |
| 230440. C 1028-1.                                       |               |
| 230441. C 1028-6.                                       |               |
| 230442. COFFEA UGANDAE Cramer                           | Coffee.       |
| 230443 and 230444. COFFEA (hybrids).                    | Coffee.       |
| <i>C. congensis</i> × <i>ugandae</i> .                  |               |
| 230443. C 1027-3.                                       |               |
| 230444. C 1027-4.                                       |               |
| 230445. COFFEA sp.                                      |               |
| 'Conuga-Bgn 2-03'.                                      |               |
| 230446. COFFEA sp.                                      |               |
| 'Conuga 2-14'.  |               |
| 230447 and 230448. COFFEA DEWEVREI Wildem. & Dur.       | Coffee.       |
| 230447. Col. 1.   |               |
| 230448. Col. 7.   |               |
| 230449. COFFEA ABEOKUTAE Cramer                         | Coffee.       |
| Col. 6.   |               |
| 230450. COFFEA DYBOWSKII Van Hall.                      | Coffee.       |
| Col. 15.  |               |
| 230451. COFFEA EXCELSA Chaval.                          | Congo coffee. |
| Col. 11.  |               |

**230452. ENCEPHALARTOS VILLOSUS Lem. Cycadaceae.**

From the Union of South Africa. Seeds presented by the Botanic Garden, Durban, Natal. Received Dec. 7, 1955.

**230453. PSYCHOTRIA UNDATA Jacq. Rubiaceae.**

From Florida. Seeds collected by E. P. Imle, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Dec. 7, 1955.

State Park, Sebring. Nov. 27, 1955.

**230454. COFFEA ARABICA L. Rubiaceae. Arabian coffee.**

From Costa Rica. Seeds obtained from the Instituto Inter-Americano de Ciencias Agrícolas, Turrialba. Received Dec. 7, 1955.  
'Caturra'.

**230455. ILEX SUGEROKII Maxim. Aquifoliaceae. Sugeroki holly.**

From Japan. Seeds presented by the Faculty of Science, Tohoku University, Sendai. Received Dec. 7, 1955.

**230456. PHYSOSPERMUM sp. Apiaceae.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Dec. 8, 1955.

Col. No. 15153. Mountain southwest of Bajgah Valley, east of Shiraz. June 30, 1955. Elevation 7,500 feet. Herb used locally as a vegetable.

**230457 to 230592.**

From Wisconsin. Plant material growing at the Potato Introduction Project Branch Experiment Station, Sturgeon Bay. Numbered Dec. 8, 1955.

**230457 to 230468.**

Presented by the Agricultural Research Council, Potato Genetics Section, Huntingdon Road, Cambridge, England. (Commonwealth Potato Collection).

**230457. SOLANUM ANDIGENUM Juz. & Buk. Solanaceae.**

CPC 1464. Y-virus resistant.

**230458. SOLANUM ANDREANUM Baker**

CPC 2373. Originally from Hawkes collection.

**230459. SOLANUM BRACHYCARPUM Correll**

CPC 2292.

**230460. SOLANUM COLOMBIANUM Dunal**

CPC 2177. Originally from Hawkes collection.

**239461. SOLANUM MORELLIFORME Bitter & Muench.**

CPC 2262.

**230462. SOLANUM MOSCOPANUM Hawkes**

CPC 2176. Originally from Hawkes collection.

**230463. SOLANUM POLYADENIUM Greenm.**

CPC 2077.5.

**230464. SOLANUM SANCTAE-ROSAE Hawkes**

CPC 2483. Originally from Hawkes collection.

**230465. SOLANUM SUCRENSE Hawkes**

CPC 2058.

**230466. SOLANUM TARIJENSE Hawkes**

CPC 1727.3 x 144.

**230467. SOLANUM TUQUERRENSE Hawkes**

CPC 2180. Originally from Hawkes collection.

**230468. SOLANUM VERNEI Bitter & Wittm.**

CPC 2413.

**230469 to 230475.**

Presented by the Technical Cooperation Program, Inter-American Institute of Agricultural Sciences, San Jose, Costa Rica.



**230457 to 230592—Continued****230469 to 230475—Continued****230469.** *SOLANUM ACAULE* Bitter

IAIAS 3324. Collected by S. Alandia, Bolivia.

**230470 to 230475.** *SOLANUM ANDIGENUM* Juz. & Buk.

Collected by E. H. Casseres.

**230470.** IAIAS 3319. 'Uvilla'. Ecuador.

**230471.** IAIAS 3320. 'Chola'. Ecuador.

**230472.** IAIAS 3321. 'Argentina'. Colombia.

**230473.** IAIAS 3322. 'Tocana rosada'. Colombia.

**230474.** IAIAS 3323. 'Casablanca'. Peru.

**230475.** IAIAS 3346. 'Chicua'. Costa Rica.

**230476.** *SOLANUM COMMERSOII* Dunal

Presented by the Estacion Experimental de Horticultura, Domingos Tetrolini, Rio Grande, Rio Grande de Sul, Brazil.

Flowers lavender.

**230477.** *SOLANUM ANTIPOVICHII* Buk.

Presented by the Veredelingsbedrijf Centraelbureau, Hoofddorp, Holland. CB 82-502. Immune to Y-virus.

**230478.** *SOLANUM BULBOCASTANUM* Dunal

Presented by the Department of Agriculture Science Service, Laboratory of Plant Pathology, Fredericton, N. B., Canada.

CPC 2881.

**230479 to 230486.**

Presented by the Department of Agriculture Science Service, Botany and Plant Pathology Laboratory, Ottawa, Ontario, Canada.

**230479.** *SOLANUM OXYCARPUM* Schiede

CSC 1. Originally from Pedragal de la Joya, Veracruz, Mexico. Elevation 6,500 feet.

**230480.** *SOLANUM POLYADENIUM* Greenm.

CSC 2. Originally from Monte Punguate near Morelia, Michoacan, Mexico. Fruits orbiculate.

**230481 to 230485.** *SOLANUM BULBOCASTANUM* Dunal

**230481.** CSC 19.

**230484.** CSC 23.

**230482.** CSC 20.

**230485.** CSC 25.

**230483.** CSC 21.

**230486.** *SOLANUM CARDIOPHYLLUM* Lindl.

CSC 18.

**230487 to 230492.**

Presented by the Natural Sciences Division, Rockefeller Foundation, Mexico City, Mexico. Received July 23, 1953.

**230487 and 230488.** *SOLANUM DEMISSUM* Lindl.

**230487.** S-38.

**230488.** S-74.

**230489.** *SOLANUM PINNATISECTUM* Dun.

S-44.

**230457 to 230592—Continued****230487 to 230492—Continued****230490.** *SOLANUM STOLONIFERUM* Schlecht.

S-37.

**230491 and 230492.** *SOLANUM CARDIOPHYLLUM* Lindl.**230491.** S-23.**230492.** S-36.**230493 to 230528.**

Presented by the Ministry of Agriculture, Lima, Peru.

**230493.** *SOLANUM ACAULE* var. *SUBEXINTERRUPTUM* Bitter

No. 2045. Collected in Cabrasillo, near Puno, Peru. March, 1953.

**230494.** *SOLANUM ACAULE* BitterNo. 2065. Received as variety *albicans*, an apparently unpublished name.**230495.** *SOLANUM ACROSCOPICUM* Ochoa

No. 2043. Collected in Chivateria, Province Tarata, Department Tacna. March 21, 1953.

**230496 to 230501.** *SOLANUM ANDIGENUM* Juz. & Buk.**230496.** No. 808. 'Puca Shiri'.**230499.** No. 1226. 'Imilla Nigra'.**230497.** No. 816. 'Pina'.**230500.** No. 1245. 'Yuracc Imilla'.**230498.** No. 868. 'Cocori Marca'.**230501.** 'Renacimiento'. A high yield variety.**230502.** *SOLANUM CALCENSE* Hawkes

No. 2064.

**230503.** *SOLANUM HERRERAE* Juz.

No. 2065.

**230504.** *SOLANUM LIGNICAULE* Vargas

No. 2060.

**230505.** *SOLANUM LYCOPERSICOIDES* Dun.

No. 2035.

**230506.** *SOLANUM NEOHAWKESII* Ochoa

No. 37. Collected in Casaracra near La Oroya, Province Yauli, Department Junin. Feb. 23, 1947.

**230507.** *SOLANUM NEOWEBERBAUERII* Wittm.

No. 2048.

**230508.** *SOLANUM OCHRANTHUM* Humb. & Bonpl.

No. 973.

**230509.** *SOLANUM PIURAE* Bitt.

No. 1795.

**230510.** *SOLANUM SOGARANDINUM* Ochoa

No. 1440.

**230511.** *SOLANUM SOUKUPII* Hawkes

No. 2032.

**230512 and 230513.** *SOLANUM STENOTOMUM* Juz. & Buk.**230512.** No. 1922. 'Huadalina Larga'. One of the most interesting varieties from northern Peru.**230513.** No. 1933. 'Soplin'.

**230457 to 230592—Continued****230493 to 230528—Continued****230514.** SOLANUM sp.

No. 1505.

**230515.** SOLANUM sp.

No. 1524.

**230516.** SOLANUM sp.

No. 2023.

**230517.** SOLANUM sp.No. 2104. Series *Tuberosa*. Wild species from Ecuador.**230518.** SOLANUM sp.No. 2140. Series *Juglandifolia*. Wild species from Ecuador.**230519.** SOLANUM sp.No. 2141. Series *Juglandifolia*. Wild species from Ecuador.**230520.** SOLANUM sp.

No. 1423. Wild.

**230521.** SOLANUM sp.

No. 1431.

**230522.** SOLANUM sp.

No. 1490.

**230523.** SOLANUM sp.

No. 2129.

**230524 to 230528.** SOLANUM (hybrids).**230524.** (*S. acaule* var. *punae* × (*S. curtilobum* × *andigenum*)) × *S. acaule* × 11.50-3-47. Frost resistant.**230525.** (*S. andigenum* × *stenotomum*) × (104 × 246).**230526.** (*S. coeruleiflorum* × *neohawkesii*) × (123 × 187-2-49).**230527.** (*S. goniocalyx* × (*S. stenotomum* × *neohawkesii*)) × (306 × (246 × 187-1-48)). Frost resistant; virus susceptible.**230528.** *S. stenotomum* var. *mauna* × *brevicaule*. Frost resistant.**230529 to 230553.**

Seed presented by the Division of Botany, Indian Agricultural Research Institute, New Delhi, India.

**230529 and 230530.** SOLANUM ACAULE Bitter**230529.** MSS 1. 'Recoba'.**230530.** MSS 2. 'Recoba'. (2n=96).**230531 to 230535.** SOLANUM (hybrids).**230531.** MSS 3. *S. acaule* 'Recoba' (2n=96) × 'Katahdin'.**230532.** MSS 4. (*S. acaule* 'Recoba' (2n=96) × 'Katahdin') × *S. tuberosum* seedling Cl.B. 72.**230533.** MSS 5. ((*S. acaule* 'Recoba' (2n=96) × 'Katahdin') *S. tuberosum* seedling Cl.B. 72) × *S. tuberosum* seedling Cl.B. 72.**230534.** MSS 6. *S. acaule* 'Recoba' × *S. simplicifolium* (amphidiploid 2n=72).**230535.** MSS 7. ((*S. calcense* × *S. ballsii*) × *S. rybinii*) (amphidiploid 2n=48) × *S. tuberosum* seedling Cl.B. 72.

## 230457 to 230592—Continued

## 230529 to 230553—Continued

230536. *SOLANUM CHACOENSE* Bitter

MSS 8. ( $2n=48$ ).

230537 to 230540. *SOLANUM* (hybrids).

230537. MSS 9. *S. chacoense* ( $2n=48$ )  $\times$  'Katahdin'.

230538. MSS 18. (*S. chacoense*  $\times$  *S. rybinii*)  $F_1 \times S. rybinii$ .

230539. MSS 10. (*S. chacoense*  $\times$  *S. rybinii*) (amphidiploid  $2n=48$ )  $\times$  *S. tuberosum* seedling Cl.B. 72.

230540. MSS 19. (*S. chacoense*  $\times$  *S. rybinii*) (amphidiploid  $2n=48$ )  $\times$  *S. tuberosum* seedling Cl.B. 72)  $\times$  *S. tuberosum* seedling Cl.B. 72.

230541. *SOLANUM LANCIFORME* Rydb.

MSS 20.

230542 to 230545. *SOLANUM* (hybrids).

230542. MSS 21. *S. macolae*  $\times$  *S. simplicifolium*.

230543. MSS 12. *S. parodii*  $\times$  *S. saltense* (amphidiploid  $2n=48$ ).

230544. MSS 13. (*S. parodii*  $\times$  *S. saltense*) (amphidiploid  $2n=48$ )  $\times$  *S. tuberosum* seedling Cl.B. 72.

230545. MSS 14. *S. phureja* ( $2n=48$ )  $\times$  'Katahdin'.

230546. *SOLANUM VERRUCOSUM* Schlecht.

MSS 22.

230547 to 230553. *SOLANUM* (hybrids).

230547. MSS 15. *S. verrucosum* ( $2n=48$ )  $\times$  *S. tuberosum* seedling Cl.B 72.

230548. MSS 17. (*S. verrucosum*  $\times$  *S. macolae*) (amphidiploid  $2n=48$ )  $\times$  *S. tuberosum* seedling Cl. B 72.

230549. MSS 23. *S. verrucosum*  $\times$  *S. rybinii*.

230550. MSS 16. (*S. verrucosum*  $\times$  *S. rybinii*) (amphidiploid  $2n=48$ )  $\times$  *S. tuberosum* seedling Cl.B 72.

230551. MSS 24. (*S. verrucosum*  $\times$  *S. saltense*)  $F_1 \times S. saltense$ .

230552. MSS 25. (*S. verrucosum*  $\times$  *S. saltense*)  $F_1 \times S. saltense$ )  $\times$  *S. parodii*.

230553. MSS 26. *S. vernei*  $\times$  *S. simplicifolium*.

230554 to 230558. Seeds presented by the Max Planck Institut für Züchtungsforschung, Cologne, Germany.

230554 to 230556. *SOLANUM ACAULE* Bitter

230554. EBS. (var. *bukasovii*  $\times$  var. *rossii*)  $F_1$ . X-immune.

230555. EBS.  $\times$ -immune.

230556. EBS.  $\times$ -immune.

230557. *SOLANUM AJUSCOENSE* Bukosov

EBS 281. CPC 1331.

230558. *SOLANUM DEMISSUM* Lindl.

EBS 18. Lindl. 029.

230559. *SOLANUM DEMISSUM* var. *TLAXPEHUALCOENSE* Buk. ex Rybin.

EBS 44.

230560. *SOLANUM DEMISSUM* Lindl.

EBS 48b. 'Reddick's No. 530', El Desierto.



**230457 to 230592—Continued****230554 to 230568—Continued****230561.** *SOLANUM POLYADENIUM* Greenm.

EBS 51. Vold.

**230562.** *SOLANUM VERNEI* Bitter & Wittm.

EBS 181. Very high resistance to golden nematode.

**230563 to 230568.** *SOLANUM* (hybrids).**230563.** *S. tuberosum* × *S. andigenum*.

MPI 44.685/1. Phytophthora incubation resistance.

**230564.** *S. tuberosum* × *S. andigenum*.

MPI 53.3363/20. Phytophthora incubation resistance.

**230565.** *S. tuberosum* × *S. andigenum*.

MPI 53.3363/28. Phytophthora incubation resistance.

**230566.** *S. 'Carmen'* × *S. andigenum*.

MPI 53.180A × 130/10. Phytophthora incubation resistance.

**230567.** *S. ('Urtica' × 'Mittelfruhe')* × *S. andigenum*.

MPI 53.185 × 129/48. Phytophthora incubation resistance.

**230568.** *S. ('Urtica' × 'Mittelfruhe')* × *S. andigenum*.

MPI 53.185 × 130/54. Phytophthora incubation resistance.

**230569 to 230576** *SOLANUM* (hybrids).

Seeds presented by Josef Matz, Kartoffelzuchtstation, Anzberg, Post Haibach Bei Scharding, Austria. Received Apr. 14, 1954.

**230569.** (*S. andigenum* × *S. tuberosum*) × 'Juligold'.

Aust. J 1.

**230570.** (*(S. antipoviczii* × 'Aquila') × *S. tuberosum* 'Mittelfruher') × self.

Aust. G 45.

**230571.** (*(S. antipoviczii* × 'Aquila') × self) × 'Juligold'.

Aust. J 8.

**230572.** (*(S. antipoviczii* × 'Aquila') × self) × seedling 'F 16/12'.

Aust. J 9.

**230573.** (*(S. antipoviczii* × 'Auila') × self) × seedling 'G 14/4'.

Aust J 25.

**230574.** (*S. demissum* × *S. tuberosum* 2n) × seedling 'F 16/12'.

Aust. J 4.

**230575.** *S. demissum* × *S. tuberosum* 2n) × 'Rotkehlchen'.

Aust. J 6.

**230576.** (*S. demissum* × *S. tuberosum* 2n) × self.

Aust. W 2.

**230577.** *SOLANUM* (hybrid).

Seeds presented by the Station de Recherches de l'Etat, Libromont, Belgium. Received May 10, 1954.

Belg. adg 43x/1.6. (*S. andigenum* × 'Aquila'). Leaf roll resistant.**230578 and 230579.** *SOLANUM DEMISSUM* Lindl.

Tubers presented by Dr. R. H. Larson, from seed sent by the Scottish Plant Breeding Station, Pentlandsfield, Roslin, Midlothian, Scotland. Received Apr., 1953.

**230457 to 230592—Continued****230578 to 230579—Continued**

230578. SSRPB. A-virus sensitive.

230579. SSRPB. Y-virus sensitive.

**230580 to 230585.**

Seeds presented by the Department of Entomology, Ohio Agricultural Experiment Station, Wooster, Ohio, Mar. 11, 1950.

230580. *SOLANUM CALDASII* Humb. & Bonpl.230581. *SOLANUM CHACOENSE* Bitter230582 and 230583. *SOLANUM COMMERTSONII* Dunal230584. *SOLANUM MACOLAE* Bukasov230585. *SOLANUM VAVILOVII* Juz. & Buk.**230586 to 230588.**

Seeds presented by the Department of Horticulture, University of Minnesota, St. Paul, Minnesota, 1951.

230586. *SOLANUM PHUREJA* Juz. & Buk.

Originally from Umberto Canderillas, Bolivia.

230587. *SOLANUM DESISSUM* f. *ATROCANEUM* Lechnov. & Buk.

'Reddick's No. 533', El Desierto.

230588. *SOLANUM VERRUCOSUM* Schlecht.

'Reddick's No. 569'. Hidalgo, Mexico.

**230589 to 230592. SOLANUM DEMISSUM Lindl.**

Seeds presented by the Department of Plant Pathology, Cornell University, Ithaca, New York. Aug. 8, 1951.

230589. 'Reddick's No. 178', used in Snowdrift, 1947.

230590. 'Reddick's No. 692', El Desierto, 1948.

230591. 'Reddick's No. 696', El Desierto.

230592. 'Reddick's No. 886', f. Bukasov, 1946.

**230593. ARUNDINELLA BERTERONIANA (Schult.) Hitchc. & Chase**  
Poaceae.

From Peru. Seeds presented by the Ministry of Agriculture, Lima. Collected in the Huallaga Valley, San Martin. Received Dec. 9, 1955.

**230594 to 230597. GOSSYPIMUM (hybrids). Malvaceae. Cotton.**

From Brazil. Seeds presented by the Instituto Agronomico do Estado de Sao Paulo, Campinas, Sao Paulo. Received Dec. 9, 1955.

230594. Delfos-40/137-53-173.

230596. I.A.C.-48/530-3607.

230595. I.A.C.-43/981.

230597. I.A.C.-51/577.

**230598 to 230603.**

From Iran. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Branch, Beltsville, Md. Received Dec. 9, 1955.

230598. *ALLIUM* sp. Liliaceae.

Col. No. 15343. Twenty-two miles north of Sanandaj, Kurdistan. July 29, 1955. Elevation 6,700 feet. Spring herb.

230599. *ARUM* sp. Araceae.

Col. No. 15154. 'Ribas'. Mountain southwest of Bajgah Valley, east of Shiraz. June 30, 1955.

**230598 to 230603—Continued**

**230600.** *BERBERIS* sp. Berberidaceae.

Col. No. 15685. Gach Sar, Alborz Range. Sept. 11, 1955. Elevation 6,800 feet. Green, thorny, compact shrub; fruits purple.

**230601.** *ECHINOCHLOA* sp. Poaceae.

Col. No. 15573. Dastana, Chaharmahal. Aug. 24, 1955. Elevation 6,700 feet. Hydrophytic grass growing in a perennial pool; well liked by animals.

**230602.** *HYPERICUM* sp. Hypericaceae.

Col. No. 15604. East base of Kuhe Zard Chaharmahal. Aug. 27, 1955. Elevation 8,500 feet. Perennial herb; used in medicine.

**230603.** *IXIOLIRION* sp. Amaryllidaceae.

Col. No. 15192. Near Ghavero kh, along road to Shahr Kord, July 7, 1955. Elevation 7,700 feet. Annual spring herb in grain field.

**230604 and 230605. ZEA MAYS L. Poaceae.****Corn.**

From Brazil. Seeds presented by Alex Smith, Fazenda Ipenima, near Campinas, Sao Paulo. Received Dec. 12, 1955.

**230604.** Hd. EE1 3330A.

**230605.** Hd. EE1 3331.

**230606 to 230608.**

From Syria. Seeds presented by S. M. Shadeed, Jacksonville, North Carolina. Received Dec. 12, 1955. Grown in Damascus.

**230606.** *LATHYRUS CICERA* L. Fabaceae.

**Flatpod peavine.**

**230607.** *MEDICAGO SATIVA* L. Fabaceae.

**Alfalfa**

**230608.** *VICIA SATIVA* L. Fabaceae.

**Common vetch.**

'Bee-hia'.

**230609 to 230615.**

From Japan. Presented by the Ministry of Agriculture and Forestry, Tochigi, Honshu. Received Dec. 12, 1955.

**230609 to 230614.** *RHODODENDRON* (hybrids).

(Plants.)

**230609.** 'Ban-ka'.

**230612.** 'Homare-no-hana'.

**230610.** 'Getsu-toku'.

**230613.** 'Tatsumi-no-hikari'.

**230611.** 'Hei-wa'.

**230614.** 'Wa-ko'.

**230615.** *CLEMATIS* sp. Ranunculaceae.

**230616. CALLITROPSIS ARAUCARIOIDES R. H. Compt. Pinaceae.**

From New Caledonia. Plants presented by the South Pacific Commission, Noumea. Received Dec. 12, 1955.

**230617 and 230618.**

From Mexico. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Dec. 12, 1955.

**230617.** *DIOSCOREA COMPOSITA* Hemsl. Dioscoreaceae.

**Yam.**

Col. No. 15856. Seven miles south of Tierra Blanca at Rancho Loma del Carmen, Veracruz.

**230618.** *DIOSCOREA FLORIBUNDA* Mart. & Gal.

**Yam.**

Col. No. 15875. Seven miles west of Veracruz along road to Jalapa, Veracruz.

**230619. CONOCARPUS ERECTA L. Combretaceae.**

From Florida. Seeds collected by William Cowgill, Coconut Grove. Received Dec. 13, 1955.

**230620 and 230621.**

From Italy. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Dec. 13, 1955.

**230620. GENISTA sp. Fabaceae.**

Col. No. 15826. La Mortola Gardens, Ventimiglia. Sept. 24, 1955. Small, slender, leafless, thorny shrub. Said to be ornamental; native to the Mediterranean coast.

**230621. ORYZOPSIS MILLIACEA (L.) Benth. & Hook. Poaceae. Smilgrass.**

Col. No. 15825. La Mortola Gardens, Ventimiglia. Sept. 24, 1955. Caney perennial to 3 feet high; has little leaf growth.

**230622. CITRUS SINENSIS (L.) Osbeck Rutaceae. Sweet orange.**

From Italy. Seeds obtained by J. R. Furr from a market at Gioia Tauro. Received Dec. 13, 1955.

Variety unknown; fruits flattened, with navel; early, quality good.

**230623. CITRUS SINENSIS (L.) Osbeck Rutaceae. Sweet orange.**

From Sicily. Seeds obtained by J. R. Furr in Paterno. Received Dec. 13, 1955.

'Sanguinello'. Fruits round, medium size, seedless, quality good.

**230624. PRUNUS (hybrid). Amygdalaceae.**

From France. Rooted cuttings presented by the Centre Recherches Agronomique, Port de la Maye. Received Dec. 13, 1955.

(F1(R1 x S557)1).

**230625 to 230628.**

From Morocco. Seeds presented by H. Chapot, Institut des Fruits et Agrumes Coloniaux, Rabat. Received Dec. 13, 1955.

**230625 to 230627. CITRUS (hybrids). Rutaceae.**

**230625.** 'MHAC NAO'. Fruit size between lemon and lime; probably lemon hybrid.

**230626.** 'MHAC VO'. Probably the Moroccan 'Citron de Borneo' or the 'Djeroek Citroen' from Java. Fruits large.

**230627.** 'MHAC VO'. Fruits small.

**230628. CITRUS RETICULATA Blanco Mandarin orange.**

Unnamed variety. Sometimes called 'Mandarine a Teteons' (Mandarin with long-necked fruit).

**230629. RAUVOLFIA SEMPERFLORENS (Muell.-Arg.) Schlecht.**

Apocynaceae. **Devilpepper.**

From New Caledonia. Roots presented by J. Barrow, Contouta Valley, Noumea. Received Dec. 13, 1955.

No. 3561.

**230630. GALANTHUS NIVALIS L. Amaryllidaceae.**

From New York. Bulbs presented by Van Bourgondien Sons, Inc., Babylon, Long Island. Received Dec. 13, 1955.

**230631 to 230633.**

From California. Bulbs and seeds presented by the Oakhurst Gardens, Arcadia. Received Dec. 13, 1955.



**230631 to 230633—Continued****230631 and 230632.** *AMARYLLIS BELLADONNA* L. Amaryllidaceae.**230631.** Bulbs.**230632.** Seeds.**230633.** *CRINUM MOOREI* Hook. f. Amaryllidaceae.

Seeds.

**230634.** *CHAMAEDOREA ERUMPENS* H. E. Moore Phoenicaceae. **Palm.**

From Florida. Seeds presented by O. C. Corbin, Coconut Grove. Received Dec. 14, 1955.

**230635 to 230637.**

From Mexico. Seeds collected by H. S. Gentry, Agricultural Explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received Dec. 14, 1955.

**230635.** *MUHLENBERGIA* sp. Poaceae.

Col. No. 15843. Lomas de Chapultepec, Mexico City. Oct. 28, 1955. Elevation 8,000 feet. Tufted perennial; leaves thick, narrow.

**230636.** *STIPA ICHU* (Ruiz. & Pav.) Kunth Poaceae. **Needlegrass.**

Col. No. 15842. Lomas de Chapultepec, Mexico City. Nov. 28, 1955. Elevation 8,000 feet. Rank growing bunch perennial; leaves long.

**230637.** *ELEUSINE TRISTACHYA* Lam. Poaceae.

Col. No. 15902. Lomas de Chapultepec, Mexico City. November 1955. Plant low, decumbent, densely spreading; growing on open slope.

**230638 to 230650.** *ZEA MAYS* L. Poaceae. **Corn.**

From Angola. Seeds presented by Jorge B. Vieira da Silva, Nova Lisboa. Received Dec. 14, 1955.

**230638.** 54-376.**230645.** 54-2736.**230639.** 54-380.**230646.** 54-2553.**230640.** 54-576.**230647.** 54-2559.**230641.** 54-2550.**230648.** 54-2578.**230642.** 54-2717.**230649.** 54-2588.**230643.** 54-2724.**230650.** 54-2589.**230644.** 54-2729.**230651 to 230653.** *TRITICUM AESTIVUM* L. Poaceae. **Common wheat.**

From Paraguay. Seeds collected by William Loegering, Caacupe. Received Dec. 14, 1955.

**230651.** 'Jhiasevava'.**230652.** 'Jhiveva'.**230653.** 'Jhoseveva'.**230654 to 230657.** *RHODODENDRON MAXIMUM* L. Ericaceae.**Rosebay rhododendron.**

From native northwestern plants, University of New Hampshire. Collected in 1955 by the Agricultural Experiment Station, Durham, New Hampshire.

**230654 and 230655.**

From Standish, Cumberland, Maine, about 1 mile south of Sebago Lake.

**230654.** B1-S Vigorous colony; locally known as the white group. (From the same selection as P.I. No. 229375.)**230655.** B2-S Vigorous colony; locally known as the pink group.

**230654 to 230657—Continued****230656.** No. 1.

From Conway, Carroll, New Hampshire. Mature colony; stems up to 3 inches in diameter. Elevation 1,000 feet.

**230657.** No. 2.

From Sanford, York, Maine. Plant vigorous; very dense growth.

**230658 to 230663.** *SOLANUM* (hybrids). Solanaceae.

From Wisconsin. Tubers presented by the Department of Plant Pathology, University of Wisconsin, Madison.

Numbered Dec. 14, 1955.

**230658.** *S. demissum* × *S. tuberosum*.

CB. Duplex Y-virus resistance (Mastenbroek).

**230659 to 230663.** (*S. andigenum* var. *woelung* × *S. tuberosum*) × *S. tuberosum*.

Resistant to bacterial wilt in Indonesia (Toxopeus).

**230659.** WTT 52-4-9.**230662.** WTT 52-6-9.**230660.** WTT 52-6-2.**230663.** WTT 52-6-13.**230661.** WTT 52-6-3.**230664 to 230670.**

From Great Britain. Seeds presented by P. E. Taylor, Keyworth, Nottinghamshire, England. Received Dec. 15, 1955.

**230664.** *LATHYRUS CICERA* L. Fabaceae.

Flatpod peavine.

**230665.** *VICIA BENGHALENSIS* L. Fabaceae.

Purple vetch.

**230666.** *VICIA BITHYNICA* L.

Vetch.

**230667.** *VICIA PANNONICA* Crantz.

Hungarian vetch.

'Alba'.

**230668.** *VICIA SATIVA* L.

Common vetch.

**230669.** *VICIA TETRASPERMA* (L.) Moench

Fourseed vetch.

**230670.** *VICIA TETRASPERMA* var. *GRACILIS* (Lois.) Aschers. & Graebn.

Vetch.

**230671.** *BRACHYSTEGIA SPICAEFORMIS* Benth. Caesalpinaceae.

From Rhodesia. Seeds presented by the Forestry Commission, Causeway, Salisbury. Received Dec. 15, 1955.

**230672 and 230673.**

From Australia. Seeds presented by G. H. Hewitt, Bellingen, New South Wales. Received Dec. 15, 1955.

**230672.** *CALLISTEMON SALIGNUS* (J. E. Sm.) Sweet. Myrtaceae.

Bottlebrush.

**230673.** *EUCALYPTUS CLOEZIANA* F. Muell. Myrtaceae.**230674 to 230684.**

From Rhodesia. Seeds presented by J. Hinds, Pasture Agriculture Department, Lusaka. Received Dec. 16, 1955.

**230674.** *CHLORIS GAYANA* KUNTH. Poaceae.

Rhodesgrass.

**230675.** *INDIGOFEA ECHINATA* Willd. Fabaceae.

Indigo.

**230676 to 230684.** *VIGNA SINENSIS* (Torner) Savi. Fabaceae. Common cowpea**230676.** 'Lunkumba'.**230681.** 'Mankoya Selection 4'.**230677.** 'Lyomba'.**230682.** 'Mankoya Selection 5'.**230678.** 'Mankoya Selection 1'.**230683.** 'Munawani'.**230679.** 'Mankoya Selection 2'.**230684.** 'Munyonga'.**230680.** 'Mankoya Selection 3'.

**230685. MALUS (hybrid). Malaceae.**

From Canada. Cuttings presented by the Experiment Station, Mordan, Manitoba.  
Received Dec. 16, 1955.

'Sundog'.

**230686. ORYZA SATIVA L. Poaceae.****Rice.**

From Italy. Seeds presented by the Stazione Sperimentale di Riscultura, Vercelli.  
Received Dec. 16, 1955.

'Agostano'.

**230687 to 230718. FRAGARIA (hybrids). Rosaceae.****Strawberry.**

From France. Plants obtained from various sources. Received Apr. 6 and 7, 1955.  
**230687 to 230691.**

From the Station Centrale de Genetique et D'Amelioration des Plantes, Versailles.

**230687.** 'Abondance'.

**230690.** 'Regal'.

**230688.** 'Louis Vilmorin'.

**230691.** 'Sans Rivale'.

**230689.** 'Mme. Raymond Poincare'.

**230692 to 230696.**

From the Institut Nacional de la Recherche Agromique, Versailles.

**230692.** 'Belle Bourguignonne'.

**230695.** 'Muscade'.

**230693.** 'Hercule'.

**230696.** 'Record'.

**230694.** 'Ma Preferee'.

**230697 to 230718.**

From R. Chapron, Rue de Maltot, Caen, Calvados.

**230697.** 'Carolina Superba'.

**230708.** 'Mme. Jacques Leroy Ladurie'.

**230698.** 'Centenaire'.

**230709.** 'Mme. Mesle'.

**230699.** 'Chatetaine de Grentheville'.

**230710.** 'Princess Clementine'.

**230700.** 'Delicieuse'.

**230711.** 'Reine de Precoces'.

**230701.** 'Frederic William'.

**230712.** 'Souvenir de Mabioux'.

**230702.** 'Freja'.

**230713.** 'St. Claude'.

**230703.** 'Inepuisable'.

**230714.** 'Sulpice Barbe'.

**230704.** 'Josette Faure'.

**230715.** 'The Duke'.

**230705.** 'L'Aurore'.

**230716.** 'Triomphe de Tihange'.

**230706.** 'La Parisienne'.

**230717.** 'Ville de Caen'.

**230707.** 'Liberation d'Orleans'.

**230718.** 'Ville de Paris'.

**230719. BOENNINGHAUSENIA ALBIFLORA (Hook.) Reichenb. Rutaceae.**

From Japan. Seeds presented by H. Takeda, Mount Ishizuchiyama, Shikoku. Received Dec. 9, 1955.

An annual plant with attractive foliage.

**230720. STEREOSPERMUM FIMBRIATUM DC. Bignoniaceae.**

From China. Seeds presented by the Botanical Garden, Singapore. Received Dec. 19, 1955.

Tree to 80 feet high; flowers pale-lilac.

**230721 to 230723.**

From the Netherlands. Seeds presented by Grains-Seeds, Limited, Warmenhuizen. Received Dec. 19, 1955.

**230721 and 230722. BRASSICA OLERACEA var. CAPITATA L. Brassicaceae. Cabbage.**

**230721 to 230723—Continued****230721 to 230722—Continued**

230721. 'Langendijk Autumn Nr. 53'.

230722. 'Langendijker Winter.'

230723. *DAUCUS CAROTA* L. Apiaceae.

Carrot.

Yield heavy.

**230724 to 230728. SACCHARUM (hybrids). Poaceae. Sugarcane.**

From the British West Indies. Cuttings presented by the Central Sugarcane Breeding Station, Barbados. Received Dec. 20, 1955.

230724. B. 50 F 1.

230727. B. 50 F 4.

230725. B. 50 F 2.

230728. B. 50 F 5.

230726. B. 50 F 3.

**230729 to 230780. COFFEA ARABICA L. Rubiaceae. Arabian coffee.**

From Ethiopia. Seeds collected by Jean B. H. Lejeune, Food and Agriculture Organization of the United Nations, Addis Ababa. Received Dec. 20, 1955.

Collected in the forest region of Kaffa Province, about 16 miles from Mizan Tafari, October, 1955.

**230729 to 230753.**

From Babaca. Elevation 4,500 feet.

230729. Line 0127.

230742. Line 0140.

230730. Line 0128.

230743. Line 0141.

230731. Line 0129.

230744. Line 0142.

230732. Line 0130.

230745. Line 0143.

230733. Line 0131.

230746. Line 0144.

220734. Line 0132.

230747. Line 0145.

230735. Line 0133.

230748. Line 0146.

230736. Line 0134.

230749. Line 0147.

230737. Line 0135.

230750. Line 0148.

230738. Line 0136.

230751. Line 0149.

230739. Line 0137.

230752. Line 0150.

230740. Line 0138.

230753. Line 0151.

230741. Line 0139.

230754. Population 0152. From Einamba. Elevation 1,500 feet.

230755. Line 0101. From Bada Buna. Elevation 5,500 feet.

230756. Population 0102. From Jimma, Kaffa Prov. Elevation 5,600 feet.

230757. Population 0103. From Jimma, Kaffa Prov. Elevation 5,600 feet.

230758. Population 0104. From Bada Buna. Elevation 5,500 feet.

230759 to 230778. From Mizan Tafari. Elevation 4,700 feet.

230759. Line 0105.

230765. Line 0111.

230760. Line 0106.

230766. Line 0112.

230761. Population 0107.

230767. Line 0113.

230762. Line 0108.

230768. Line 0114.

230763. Line 0109.

230769. Line 0115.

230764. Line 0110.

230770. Population 0116.



**230729 to 230780—Continued****230759 to 230778—Continued**

230771. Line 0117.

230775. Line 0121.

230772. Line 0118.

230776. Line 0122.

230773. Line 0119.

230777. Line 0123.

230774. Population 0120.

230778. Population 0124.

230779. Population 0125. From Jimma. Elevation 5,700 feet.

230780. 'Moka du Sidamo'. Population 0126. Elevation 5,300 feet.

**230781. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. Sweetpotato.**

From Mexico. Tubers presented by Jose Morgadanés, Mexico City. Received Dec. 20, 1955.

**230782 and 230783.**

From India. Seeds presented by the Agricultural Research Institute, New Delhi. Received Dec. 21, 1955.

230782. *MALLOTUS PHILIPPINENSIS* (Lam.) Muell.-Arg. Euphorbiaceae.**Kamalatrete.**

1-W-952.

230783. *MEDICAGO SATIVA* L. Fabaceae.**Alfalfa.**

Sirsa type "9."

**230784 and 230785.**

From Uganda. Seeds presented by the Department of Agriculture, Kawanda, Kampala. Received Dec. 21, 1955.

230784. *COFFEA ARABICA* var. *ERECTA* Cramer Rubiaceae.**Coffee.**230785. *COFFEA UGANDAE* Cramer**Coffee.****230786 and 230787. ARRACACIA XANTHORRHIZA Bancroft Apiaceae. Arracacha.**

From Peru. Collected by E. E. Smith, Institute of Inter-American Affairs, Huanuco. Received Dec. 23, 1955.

230786. Red leaf bases.

230787. Green leaf bases.

**230788. CAMELLIA SASANQUA Thunb. Theaceae. Sasanqua camellia.**

From Portugal. Plants presented by Moreira da Silva and Sons, Porto. Received Dec. 27, 1955.

'Jaune'.

**230789 to 230828. COFFEA ARABICA L. Rubiaceae. Arabian coffee.**

From Costa Rica. Seeds presented by the Instituto Inter-Americano de Ciencias Agrícolas, Turrialba. Received Dec. 27, 1955.

230789. 'Guadaloupe IAN-Guat'. T. 971.

230795. 'Maragogipe'. T. 978.

230796. 'Sumatra'. T. 980.

230790. 'Philippine IAN-Guat'. T. 972.

230797. 'Preanger'. T. 981.

230791. 'Chocola' IAN-Guat'. T. 973.

230798. 'Ceylon Hybrid'. T. 982.

230799. 'Bourbon'. Y. 983. (Red.)

230792. T. 974.

230800. 'Purpurascens'. T. 986.

230793. 'Padang'. T. 975.

230801. 'Purpurascens'. T. 987.

230794. 'Blue Mountain'. T. 977.

230802. 'Guadaloupe'. T. 989.

**230789 to 230828—Continued**

230803. 'Surinam'. T. 990.  
 230804. 'Padang'. T. 992.  
 230805. 'Salv. Nacional'. T. 993.  
 230806. 'Bourbon'. T. 995. (Red.)  
 230807. 'Erecta'. T. 996.  
 230808. 'Polysperma'. T. 1764.  
 230809. 'Salv. Nacional'. T. 1996.  
 230810. T. 1997. A. 187.  
 230811. 'Semperflorens'. T. 1998.  
 230812. T. 1999.  
 230813. 'Semperflorens'. T. 2000.  
 230814. 'Kona'. T. 2137.  
 230815. 'Surinam'. T. 2139.  
 230816. 'Pretoria'. T. 2143.  
 230817. 'Columnaris'. T. 2158.  
 230818. 'Lauvina'. T. 2299.  
 230819. 'Caturva'. C. 818. T. 2308. (Red.)  
 230820. 'Cera'. (Selfed.) Col. 7. T. 2309.  
 230821. 'Typica' f. 'Xanth'. (Selfed.) T. 2316.  
 230822. 'Erecta'. T. 2395.  
 230823. 'Pantgoer'. T. 2401.  
 230824. 'Bourbon Xanth'. T. 2540.  
 230825. 'Bourbon'. T. 2541. (Red.)  
 230826. 'Caturya Xanth'. T. 2542.  
 230827. 'Villalobos'. T. 2594.  
 230828. T. 2900.

**230829. CRINUM POWELLII Baker Amaryllidaceae. Powell crinum.**

From California. Bulbs purchased from Oakhurst Gardens, Arcadia. Received Dec. 27, 1955.

**230830. PHOENIX DACTYLIFERA L. Phoenicaceae. Date palm.**

From Morocco. Seeds presented by the Station Horticole Experimental, Ksar-es-Souk. Received Dec. 27, 1955.

**230831. CALOCARPUM SAPOTA (Jacq.) Merr. Sapotaceae. Sapote.**

From Mexico. Seeds presented by the Institute of Agricultural Research, Mexican Ministry of Agriculture, Mexico City. Received Dec. 27, 1955.

**230832 to 230834.**

From Morocco. Seeds presented by the Institut des Fruits et Agrumes Coloniaux, Rabat. Received Dec. 28, 1955.

Originally from Vientiane, Laos, Indochina.

**230832. CITRUS sp. Rutaceae.**

'Mak Nao Si'.

**230833. CITRUS sp.**

'Mak Veu'.

**230834. CITRUS SINENSIS (L.) Osbeck**

**Sweet orange.**

'Mak Som Van'.

**230835. ASTRAGALUS sp. Fabaceae.**

From Iran. Seeds presented by the Agricultural Division, United States Operations Mission, Teheran. Received Jan. 17, 1956.

**230836 to 230860. SACCHARUM (hybrids). Poaceae. Sugarcane.**

From Hawaii. Plant material presented by the Experiment Station of the Hawaiian Sugar Planters' Association, Honolulu. Received Dec. 29, 1955. Collected in Thailand.

**230836 to 230840. Cuttings.**

230836. '01 Dang'.

230839. 'Nam Phung'.

230837. '01 Gunmli'.

230840. 'Tapow'.

230838. 'La Jia'.

**230836 to 230860—Continued****230841 to 230860. Seeds.**

- 230841. 'Thai #1'. Sara Buri and Phra Baht.
- 230842. 'Thai #2'. Sixteen miles south of Chinat.
- 230843. 'Thai #3'. Near Chinat.
- 230844. 'Thai #4'. North of Nakhon Sawan.
- 230845. 'Thai #5'. Swampy area south of Sukhothal.
- 230846. 'Thai #6'. Swampy area near Kamphaeng Phet.
- 230847. 'Thai #8'. Swampy roadside near Kamphaeng Phet.
- 230848. 'Thai #9'. Bank of Wang River near Tern.
- 230849. 'Thai #10'. From stream bank near Chieng Mai.
- 230850. 'Thai #11'. From Chieng Mai Mountain.
- 230851. 'Thai #12'. Three miles north of Ping Kong, Chieng Dao.
- 230852. 'Thai #13'. From swamp near Pany Makum POM (Fang District).
- 230853. 'Thai #14'. From stream bank at Huey Ngum KM 119 North of Chieng Mai.
- 230854. 'Thai #15'. Huey Krai, Kang District.
- 230855. 'Thai #16'. From stream bank, Fang District.
- 230856. 'Thai #17'. From stream bank, Tern District, south of Lampang.
- 230857. 'Thai #18'. From stream bank at Mae Suey near Chieng Rai.
- 230858. 'Thai #19'. From Nakorn Chum near Kamphaney Phet.
- 230859. 'Thai #20'. From Nakhon Sawan.
- 230860. 'Thai #21'. From swampy area near Lopburi.

**230861 to 230874.**

From Wisconsin. Plant material grown at the Potato Introduction Project Branch Experiment Station, Sturgeon Bay. Numbered Dec. 29, 1955. Received from the Field Crop Insect Laboratory, Fredericton, New Brunswick, Canada.

Tubers unless otherwise noted.

**230861. SOLANUM CHACOENSE Bitter Solanaceae.**

FCE 103. (4n form) Feb., 1952.

**230862 to 230864. SOLANUM COMMERSONII Dunal**

230862. FCE 105.7. November 1952.

230863. FCE 105.8. November 1952.

230864. FCE 105.11. November 1952.

**230865 and 230866. SOLANUM LANCIFORME Rydb.**

230865. FCE 106. June 22, 1954.

230866. FCE 107. Sept. 7, 1954.

**230867 to 230870. SOLANUM RYBINII Juz. & Buk.**

230867. FCE 108. (Seeds.) 1951.

230868. FCE 109.1. Sept. 21, 1955.

230869. FCE 109.2. Sept. 21, 1955.

230870. FCE 109.3. Sept. 21, 1955.

**230871 to 230874. SOLANUM (hybrids).**

(*S. chacoense* × *S. rybinii*). Sept. 21, 1955.

**230861 to 230874—Continued**

230871 to 230874—Continued

230871. FCE 113.15.

230873. FCE 113.69.

230872. FCE 113.24.

230874. FCE 113.92.

**230875. MELILOTUS OFFICINALIS (L.) Lam. Fabaceae.****Yellow sweetclover.**

From Yugoslavia. Seeds presented by the Institute for Plant Breeding and Plant Production, Zemun. Received Dec. 30, 1955.

**230876. CROTALARIA sp. Fabaceae.**

From Peru. Seeds presented by Arthur F. Swanson, Lima. Received Dec. 30, 1955.

Collected near Lamas in the Amazon region. Elevation 3,280 feet. Plant to 5 feet high; pods roundish.



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